

P-644

NASA PATENT ABSTRACTS BIBLIOGRAPHY

A CONTINUING BIBLIOGRAPHY
SECTION 2 INDEXES

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PATENT ABSTRACTS BIBLIOGRAPHY: A
CONTINUING BIBLIOGRAPHY: SECTION 2:
INDEXES (SUPPLEMENT 46) (NASA)
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NASA SP-7039 (46)
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NASA PATENT ABSTRACTS BIBLIOGRAPHY

A CONTINUING BIBLIOGRAPHY
SECTION 2 INDEXES



National Aeronautics and Space Administration
Scientific and Technical Information Office
Washington, DC

1995

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INTRODUCTION

Several thousand inventions result each year from the aeronautical and space research supported by the National Aeronautics and Space Administration. The inventions having important use in government programs or significant commercial potential are usually patented by NASA. These inventions cover practically all fields of technology and include many that have useful and valuable commercial application.

NASA inventions best serve the interests of the United States when their benefits are available to the public. In many instances, the granting of nonexclusive or exclusive licenses for the practice of these inventions may assist in the accomplishment of this objective. This bibliography is published as a service to companies, firms, and individuals seeking new, licensable products for the commercial market.

The *NASA Patent Abstracts Bibliography (NASA PAB)* is a semiannual NASA publication containing comprehensive abstracts and indexes of NASA-owned inventions covered by U.S. patents and applications for patent. The citations included in *NASA PAB* were originally published in NASA's *Scientific and Technical Aerospace Reports (STAR)* and cover *STAR* announcements made since May 1969.

For the convenience of the user, each issue of *NASA PAB* has a separately bound Abstract Section (Section 1) and Index Section (Section 2). Although each Abstract Section covers only the indicated six-month period, the Index Section is cumulative covering all NASA-owned inventions announced in *STAR* since 1969. Thus a complete set of *NASA PAB* would consist of the Abstract Sections of Issue 04 (January 1974) and Issue 12 (January 1978) and the Abstract Section for all subsequent issues and the Index Section for the most recent issue.

The 108 citations published in this issue of the Abstract Section cover the period July 1994 through December 1994. The Index Section references over 5600 citations covering the period May 1969 through December 1994.

ABSTRACT SECTION (SECTION 1)

This *PAB* issue includes 10 major subject divisions separated into 76 specific categories and one general category/division. (See Table of Contents for the scope note of each category, under which are grouped appropriate NASA inventions.) This scheme was devised in 1975 and revised in 1987 in lieu of the 34 category divisions which were utilized in *PAB* supplements (01) through (06) covering *STAR* abstracts from May 1969 through January 1974. Each entry in the Abstract Section consists of a *STAR* citation accompanied by an abstract and, when appropriate, a key illustration taken from the patent or application for patent. Entries are arranged by subject category in order of the ascending NASA Accession Number originally assigned for *STAR* to the invention. The range of NASA Accession Numbers within each issue is printed on the inside back cover.

Abstract Citation Data Elements: Each of the abstract citations has several data elements useful for identification and indexing purposes, as follows:

- NASA Accession Number
- NASA Case Number
- Inventor's Name
- Title of Invention
- U.S. Patent Application Serial Number
- U.S. Patent Number (for issued patents only)
- U.S. Patent Office Classification Number(s)
(for issued patents only)

These data elements are identified in the Typical Citation and Abstract and in the indexes.

INDEX SECTION (SECTION 2)

The Index Section is divided into five indexes. These indexes are cross-indexed and are used to locate a single invention or groups of inventions.

Subject Index: Lists all inventions according to appropriate alphabetized technical term and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Inventor Index: Lists all inventions according to alphabetized names of inventors and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Source Index: Lists all inventions according to alphabetized source of invention (i.e., name of contractor or government installation where invention was made) and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Number Index: Lists inventions in order of ascending (1) NASA Case Number, (2) U.S. Patent Application Serial number, (3) U.S. Patent Classification Number, and (4) U.S. Patent Number and indicates the related Subject Category Number and the Accession Number.

Accession Number Index: Lists all inventions in order of ascending Accession Number and indicates the related Subject Category Number, the NASA Case Number, the U.S. Patent Application Serial Number, the U.S. Patent Classification Number, and the U.S. Patent Number.

HOW TO USE THIS PUBLICATION TO IDENTIFY NASA INVENTIONS

To identify one or more NASA inventions within a specific technical field or subject, several techniques are possible with the flexibility incorporated into the *NASA PAB*.

(1) *Using Subject Category:* To identify all NASA inventions in any one of the subject categories in this issue of *NASA PAB*, select the desired Subject Category in the Abstract Section (Section 1) and find the inventions abstracted thereunder.

(2) *Using Subject Index:* To identify all NASA inventions listed under a desired technical subject index term, (A) turn to the cumulative Subject Index in the Index Section and find the invention(s) listed under the desired technical subject term. (B) Note the indicated Accession Number and the Subject Category Number. (C) Using the indicated Accession Number, turn to the inside front cover of the Index Section to determine which issue of the Abstract Section includes the Accession Number desired. (D) To find the abstract of the particular invention in the issue of the Abstract Section selected, (1) use the Subject Category Number to locate the Subject Category and (2) use the Accession Number to locate the desired invention within the Subject Category listing.

(3) *Using Patent Classification Index:* To identify all inventions covered by issued NASA patents (not including applications for patent) within a desired Patent Classification, (A) turn to the Patent Classification Number in the Number Index of Section 2 and find the associated invention(s), and (B) follow the instructions outlined in (2)(B), and (D) above.

Subject Categories

(1969-1973)

01 Aerodynamics

Includes aerodynamics of bodies, combinations, internal flow in ducts and turbomachinery; wings, rotors, and control surfaces. For applications see: 02 Aircraft; and 32 Space Vehicles. For related information see also: 12 Fluid Mechanics; and 33 Thermodynamics and Combustion.

02 Aircraft

Includes fixed-wing airplanes, helicopters, gliders, balloons, ornithopters, etc.; and specific types of complete aircraft; e.g., ground effect machines, STOL, and VTOL; flight tests; operating problems; e.g., sonic boom; safety and safety devices; economics; and stability and control. For basic research see: 01 Aerodynamics. For related information see also: 31 Space Vehicles; and 32 Structural Mechanics.

03 Auxiliary Systems

Includes fuel cells, energy conversion cells, and solar cells; auxiliary gas turbines; hydraulic, pneumatic and electrical systems; actuators; and inverters. For related information see also: 09 Electronic Equipment; 22 Nuclear Engineering; and 28 Propulsion Systems.

04 Biosciences

Includes aerospace medicine, exobiology, radiation effects on biological systems; physiological and psychological factors. For related information see also: 05 Biotechnology.

05 Biotechnology

Includes life support systems, human engineering; protective clothing and equipment; crew training and evaluation, and piloting. For related information see also: 04 Biosciences.

06 Chemistry

Includes chemical analysis and identification; e.g., spectroscopy. For applications see: 17 Materials, Metallic; 18 Materials, Nonmetallic; and 27 Propellants.

07 Communications

Includes communications equipment and techniques; noise; radio and communications blackout; modulation telemetry; tracking radar and optical observation; and wave propagation. For basic research see: 23 Physics, General; and 21 Navigation.

08 Computers

Includes computer operation and programming; and data processing. For applications, see specific categories. For related information see also: 19 Mathematics.

09 Electronic Equipment

Includes electronic test equipment and maintainability; component parts; e.g., electron tubes, tunnel diodes, transistors, integrated circuitry; microminiaturization. For basic research see: 10 Electronics. For related information see also: 07 Communications; and 21 Navigation.

10 Electronics

Includes circuit theory; and feedback and control theory. For applications see: 09 Electronic Equipment. For related information see specific Physics categories.

11 Facilities, Research and Support

Includes airports; lunar and planetary bases including associated vehicles; ground support systems; related logistics; simulators; test facilities; e.g., rocket engine test stands, shock tubes, and wind tunnels; test ranges; and tracking stations.

12 Fluid Mechanics

Includes boundary-layer flow; compressible flow; gas dynamics; hydrodynamics; and turbulence. For related information see also: 01 Aerodynamics; and 33 Thermodynamics and Combustion.

13 Geophysics

Includes aeronomy; upper and lower atmosphere studies; oceanography; cartography; and geodesy. For related information see also: 20 Meteorology; 29 Space Radiation; and 30 Space Sciences.

14 Instrumentation and Photography

Includes design, installation, and testing of instrumentation systems; gyroscopes; measuring instruments and gauges; recorders, transducers; aerial photography; and telescopes and cameras.

15 Machine Elements and Processes

Includes bearings, seals, pumps, and other mechanical equipment; lubrication, friction, and wear; manufacturing processes and quality control; reliability; drafting; and materials fabrication, handling, and inspection.

16 Masers

Includes applications of masers and lasers. For basic research see: 26 Physics, Solid-State.

17 Materials, Metallic

Includes cermets; corrosion; physical and mechanical properties of materials; metallurgy; and applications as structural materials. For basic research see: 06 Chemistry. For related information see also: 18 Materials, Nonmetallic; and 32 Structural Mechanics.

18 Materials, Nonmetallic

Includes corrosion; physical and mechanical properties of materials; e.g., plastics; and elastomers, hydraulic fluids, etc. For basic research see: 06 Chemistry. For related information see also: 17 Materials, Metallic; 27 Propellants; and 32 Structural Mechanics.

19 Mathematics

Includes calculation methods and theory; and numerical analysis. For applications see specific categories. For related information see also: 08 Computers.

20 Meteorology

Includes climatology; weather forecasting; and visibility studies. For related information see also: 13 Geophysics; and 30 Space Sciences.

21 Navigation

Includes guidance; autopilots; star and planet tracking; inertial platforms; and air traffic control. For related information see also: 07 Communications.

22 Nuclear Engineering

Includes nuclear reactors and nuclear heat sources used for propulsion and auxiliary power. For basic research see: 24 Physics, Atomic, Molecular, and Nuclear. For related information see also: 03 Auxiliary Systems; and 28 Propulsion Systems.

23 Physics, General

Includes acoustics, cryogenics, mechanics, and optics. For astrophysics see: 30 Space Sciences. For geophysics and related information see also: 13 Geophysics; 20 Meteorology; and 29 Space Radiation.

24 Physics, Atomic, Molecular, and Nuclear

Includes atomic, molecular and nuclear physics. For applications see: 22 Nuclear Engineering. For related information see also: 29 Space Radiation.

25 Physics, Plasma

Includes magnetohydrodynamics. For applications see: 28 Propulsion Systems.

26 Physics, Solid-State

Includes semiconductor theory; and superconductivity. For applications see: 16 Masers. For related information see also: 10 Electronics.

27 Propellants

Includes fuels; igniters; and oxidizers. For basic research see: 06 Chemistry; and 33 Thermodynamics and Combustion. For related information see also: 28 Propulsion Systems.

28 Propulsion Systems

Includes air breathing, electric, liquid, solid, and magnetohydrodynamic propulsion. For nuclear propulsion see: 22 Nuclear Engineering. For basic research see: 23 Physics, General; and 33 Thermodynamics and Combustion. For applications see: 31 Space Vehicles. For related information see also: 27 Propellants.

29 Space Radiation

Includes cosmic radiation; solar flares; solar radiation; and Van Allen radiation belts. For related information see also: 13 Geophysics; and 24 Physics, Atomic, Molecular, and Nuclear.

30 Space Sciences

Includes astronomy and astrophysics; cosmology; lunar and planetary flight and exploration; and theoretical analysis of orbits and trajectories. For related information see also: 11 Facilities, Research and Support; and 31 Space Vehicles.

31 Space Vehicles

Includes launch vehicles; manned space capsules; clustered and multistage rockets; satellites; sounding rockets and probes; and operating problems. For basic research see: 30 Space Sciences. For related information see also: 28 Propulsion Systems; and 32 Structural Mechanics.

32 Structural Mechanics

Includes structural element design and weight analysis; fatigue; thermal stress; impact phenomena; vibration; flutter; inflatable structures; and structural tests. For related information see also: 17 Materials, Metallic; and 18 Materials, Nonmetallic.

33 Thermodynamics and Combustion

Includes ablation, cooling, heating, heat transfer, thermal balance, and other thermal effects; and combustion theory. For related information see also: 12 Fluid Mechanics; and 27 Propellants.

34 General

Includes information of a broad nature related to industrial applications and technology, and to basic research; defense aspects; information retrieval; management; law and related legal matters; and legislative hearings and documents.

TABLE OF CONTENTS

Revised Subject Categories
(Includes 1974 and 1987 revisions)

AERONAUTICS For related information see also *Astronautics*.

01 AERONAUTICS (GENERAL)

02 AERODYNAMICS

Includes aerodynamics of bodies, combinations, wings, rotors, and control surfaces; and internal flow in ducts and turbomachinery. For related information see also *34 Fluid Mechanics and Heat Transfer*.

03 AIR TRANSPORTATION AND SAFETY

Includes passenger and cargo air transport operations; and aircraft accidents. For related information see also *16 Space Transportation* and *85 Urban Technology and Transportation*.

04 AIRCRAFT COMMUNICATIONS AND NAVIGATION

Includes digital and voice communication with aircraft; air navigation systems (satellite and ground based); and air traffic control. For related information see also *17 Space Communications, Spacecraft Communications, Command and Tracking* and *32 Communications and Radar*.

05 AIRCRAFT DESIGN, TESTING AND PERFORMANCE

Includes aircraft simulation technology. For related information see also *18 Spacecraft Design, Testing and Performance* and *39 Structural Mechanics*. For land transportation vehicles see *85 Urban Technology and Transportation*.

06 AIRCRAFT INSTRUMENTATION

Includes cockpit and cabin display devices; and flight instruments. For related information see also *19 Spacecraft Instrumentation* and *35 Instrumentation and Photography*.

07 AIRCRAFT PROPULSION AND POWER

Includes prime propulsion systems and systems components, e.g., gas turbine engines and compressors; and onboard auxiliary power plants for aircraft. For related information see also *20 Spacecraft Propulsion and Power*, *28 Propellants and Fuels*, and *44 Energy Production and Conversion*.

08 AIRCRAFT STABILITY AND CONTROL

Includes aircraft handling qualities; piloting; flight controls; and autopilots. For related information see also *05 Aircraft Design, Testing and Performance*.

09 RESEARCH AND SUPPORT FACILITIES (AIR)

Includes airports, hangars and runways; aircraft repair and overhaul facilities; wind tunnels; shock tubes; and aircraft engine test stands. For related information see also *14 Ground Support Systems and Facilities (Space)*.

ASTRONAUTICS For related information see also *Aeronautics*.

12 ASTRONAUTICS (GENERAL)

For extraterrestrial exploration see *91 Lunar and Planetary Exploration*.

13 ASTRODYNAMICS

Includes powered and free-flight trajectories; and orbital and launching dynamics.

14 GROUND SUPPORT SYSTEMS AND FACILITIES (SPACE)

Includes launch complexes, research and production facilities; ground support equipment, e.g., mobile transporters; and simulators. For related information see also *09 Research and Support Facilities (Air)*.

15 LAUNCH VEHICLES AND SPACE VEHICLES

Includes boosters; operating problems of launch/space vehicle systems; and reusable vehicles. For related information see also *20 Spacecraft Propulsion and Power*.

16 SPACE TRANSPORTATION

Includes passenger and cargo space transportation, e.g., shuttle operations; and space rescue techniques. For related information see also *03 Air Transportation and Safety* and *18 Spacecraft Design, Testing and Performance*. For space suits see *54 Man/System Technology and Life Support*.

17 SPACE COMMUNICATIONS, SPACECRAFT COMMUNICATIONS, COMMAND AND TRACKING

Includes telemetry, space communications networks; astronavigation and guidance; and radio blackout. For related information see also *04 Aircraft Communications and Navigation* and *32 Communications and Radar*.

18 SPACECRAFT DESIGN, TESTING AND PERFORMANCE

Includes satellites; space platforms; space stations; spacecraft systems and components such as thermal and environmental controls; and attitude controls. For life support systems see *54 Man/System Technology and Life Support*. For related information see also *05 Aircraft Design, Testing and Performance*, *39 Structural Mechanics*, and *16 Space Transportation*.

19 SPACECRAFT INSTRUMENTATION

For related information see also *06 Aircraft Instrumentation* and *35 Instrumentation and Photography*.

20 SPACECRAFT PROPULSION AND POWER

Includes main propulsion systems and components, e.g., rocket engines; and spacecraft auxiliary power sources. For related information see also *07 Aircraft Propulsion and Power*, *28 Propellants and Fuels*, *44 Energy Production and Conversion*, and *15 Launch Vehicles and Space Vehicles*.

CHEMISTRY AND MATERIALS

23 CHEMISTRY AND MATERIALS (GENERAL)

24 COMPOSITE MATERIALS

Includes physical, chemical, and mechanical properties of laminates and other composite materials. For ceramic materials see *27 Nonmetallic Materials*.

25 INORGANIC AND PHYSICAL CHEMISTRY

Includes chemical analysis, e.g., chromatography; combustion theory; electrochemistry; and photochemistry. For related information see also *77 Thermodynamics and Statistical Physics*.

26 METALLIC MATERIALS

Includes physical, chemical, and mechanical properties of metals, e.g., corrosion; and metallurgy.

27 NONMETALLIC MATERIALS

Includes physical, chemical, and mechanical properties of plastics, elastomers, lubricants, polymers, textiles, adhesives, and ceramic materials. For composite materials see *24 Composite Materials*.

28 PROPELLANTS AND FUELS

Includes rocket propellants, igniters and oxidizers; their storage and handling procedures; and aircraft fuels. For related information see also *07 Aircraft Propulsion and Power*, *20 Spacecraft Propulsion and Power*, and *44 Energy Production and Conversion*.

29 MATERIALS PROCESSING

Includes space-based development of products and processes for commercial application. For biological materials see *55 Space Biology*.

ENGINEERING

For related information see also *Physics*.

31 ENGINEERING (GENERAL)

Includes vacuum technology; control engineering; display engineering; cryogenics; and fire prevention.

32 COMMUNICATIONS AND RADAR

Includes radar; land and global communications; communications theory; and optical communications. For related information see also *04 Aircraft Communications and Navigation* and *17 Space Communications, Spacecraft Communications, Command and Tracking*. For search and rescue see *03 Air Transportation and Safety* and *16 Space Transportation*.

33 ELECTRONICS AND ELECTRICAL ENGINEERING

Includes test equipment and maintainability; components, e.g., tunnel diodes and transistors; microminiaturization; and integrated circuitry. For related information see also *60 Computer Operations and Hardware* and *76 Solid-State Physics*.

34 FLUID MECHANICS AND HEAT TRANSFER

Includes boundary layers; hydrodynamics; fluidics; mass transfer and ablation cooling. For related information see also *02 Aerodynamics* and *77 Thermodynamics and Statistical Physics*.

35 INSTRUMENTATION AND PHOTOGRAPHY

Includes remote sensors; measuring instruments and gauges; detectors; cameras and photographic supplies; and holography. For aerial photography see *43 Earth Resources and Remote Sensing*. For related information see also *06 Aircraft Instrumentation* and *19 Spacecraft Instrumentation*.

36 LASERS AND MASERS

Includes parametric amplifiers. For related information see also *76 Solid-State Physics*.

37 MECHANICAL ENGINEERING

Includes auxiliary systems (nonpower); machine elements and processes; and mechanical equipment.

38 QUALITY ASSURANCE AND RELIABILITY

Includes product sampling procedures and techniques; and quality control.

39 STRUCTURAL MECHANICS

Includes structural element design and weight analysis; fatigue; and thermal stress. For applications see *05 Aircraft Design, Testing and Performance* and *18 Spacecraft Design, Testing and Performance*.

GEOSCIENCES

For related information see also *Space Sciences*.

42 GEOSCIENCES (GENERAL)

43 EARTH RESOURCES AND REMOTE SENSING

Includes remote sensing of earth resources by aircraft and spacecraft; photogrammetry; and aerial photography. For instrumentation see *35 Instrumentation and Photography*.

44 ENERGY PRODUCTION AND CONVERSION

Includes specific energy conversion systems, e.g., fuel cells; global sources of energy; geophysical conversion; and windpower. For related information see also *07 Aircraft Propulsion and Power*, *20 Spacecraft Propulsion and Power*, and *28 Propellants and Fuels*.

45 ENVIRONMENT POLLUTION

Includes atmospheric, noise, thermal, and water pollution.

46 GEOPHYSICS

Includes aeronomy; upper and lower atmosphere studies; ionospheric and magnetospheric physics; and geomagnetism. For space radiation see *93 Space Radiation*.

47 METEOROLOGY AND CLIMATOLOGY

Includes weather forecasting and modification.

48 OCEANOGRAPHY

Includes biological, dynamic, and physical oceanography; and marine resources. For related information see also *43 Earth Resources and Remote Sensing*.

LIFE SCIENCES

51 LIFE SCIENCES (GENERAL)

52 AEROSPACE MEDICINE

Includes physiological factors; biological effects of radiation; and effects of weightlessness on man and animals.

53 BEHAVIORAL SCIENCES

Includes psychological factors; individual and group behavior; crew training and evaluation; and psychiatric research.

54 MAN/SYSTEM TECHNOLOGY AND LIFE SUPPORT

Includes human engineering; biotechnology; and space suits and protective clothing. For related information see also *16 Space Transportation*.

55 SPACE BIOLOGY

Includes exobiology; planetary biology; and extraterrestrial life.

MATHEMATICAL AND COMPUTER SCIENCES

59 MATHEMATICAL AND COMPUTER SCIENCES (GENERAL)

60 COMPUTER OPERATIONS AND HARDWARE

Includes hardware for computer graphics, firmware, and data processing. For components see *33 Electronics and Electrical Engineering*.

61 COMPUTER PROGRAMMING AND SOFTWARE

Includes computer programs, routines, algorithms, and specific applications, e.g., CAD/CAM.

62 COMPUTER SYSTEMS

Includes computer networks and special application computer systems.

63 CYBERNETICS

Includes feedback and control theory, artificial intelligence, robotics and expert systems. For related information see also *54 Man/System Technology and Life Support*.

64 NUMERICAL ANALYSIS

Includes iteration, difference equations, and numerical approximation.

65 STATISTICS AND PROBABILITY

Includes data sampling and smoothing; Monte Carlo method; and stochastic processes.

66 SYSTEMS ANALYSIS

Includes mathematical modeling; network analysis; and operations research.

67 THEORETICAL MATHEMATICS

Includes topology and number theory.

PHYSICS For related information see also *Engineering*.**70 PHYSICS (GENERAL)**

For precision time and time interval (PTTI) see *35 Instrumentation and Photography*; for geophysics, astrophysics or solar physics see *46 Geophysics*, *90 Astrophysics*, or *92 Solar Physics*.

71 ACOUSTICS

Includes sound generation, transmission, and attenuation. For noise pollution see *45 Environment Pollution*.

72 ATOMIC AND MOLECULAR PHYSICS

Includes atomic structure, electron properties, and molecular spectra.

73 NUCLEAR AND HIGH-ENERGY PHYSICS

Includes elementary and nuclear particles; and reactor theory. For space radiation see *93 Space Radiation*.

74 OPTICS

Includes light phenomena and optical devices. For lasers see *36 Lasers and Masers*.

75 PLASMA PHYSICS

Includes magnetohydrodynamics and plasma fusion. For ionospheric plasmas see *46 Geophysics*. For space plasmas see *90 Astrophysics*.

76 SOLID-STATE PHYSICS

Includes superconductivity. For related information see also *33 Electronics and Electrical Engineering* and *36 Lasers and Masers*.

77 THERMODYNAMICS AND STATISTICAL PHYSICS

Includes quantum mechanics; theoretical physics; and Bose and Fermi statistics. For related information see also *25 Inorganic and Physical Chemistry* and *34 Fluid Mechanics and Heat Transfer*.

SOCIAL SCIENCES**80 SOCIAL SCIENCES (GENERAL)**

Includes educational matters.

81 ADMINISTRATION AND MANAGEMENT

Includes management planning and research.

82 DOCUMENTATION AND INFORMATION SCIENCE

Includes information management; information storage and retrieval technology; technical writing; graphic arts; and micrography. For computer documentation see *61 Computer Programming and Software*.

83 ECONOMICS AND COST ANALYSIS

Includes cost effectiveness studies.

84 LAW, POLITICAL SCIENCE AND SPACE POLICY

Includes NASA appropriation hearings; aviation law; space law and policy; international law; international cooperation; and patent policy.

85 URBAN TECHNOLOGY AND TRANSPORTATION

Includes applications of space technology to urban problems; technology transfer; technology assessment; and surface and mass transportation. For related information see *03 Air Transportation and Safety*, *16 Space Transportation*, and *44 Energy Production and Conversion*.

SPACE SCIENCES For related information see also *Geosciences*.

88 SPACE SCIENCES (GENERAL)

89 ASTRONOMY

Includes radio, gamma-ray, and infrared astronomy; and astrometry.

90 ASTROPHYSICS

Includes cosmology; celestial mechanics; space plasmas; and interstellar and interplanetary gases and dust. For related information see also *75 Plasma Physics*.

91 LUNAR AND PLANETARY EXPLORATION

Includes planetology; and manned and unmanned flights. For spacecraft design or space stations see *18 Spacecraft Design, Testing and Performance*.

92 SOLAR PHYSIC

Includes solar activity, solar flares, solar radiation and sunspots. For related information see *93 Space Radiation*.

93 SPACE RADIATION

Includes cosmic radiation; and inner and outer earth's radiation belts. For biological effects of radiation see *52 Aerospace Medicine*. For theory see *73 Nuclear and High-Energy Physics*.

GENERAL

Includes aeronautical, astronautical, and space science related histories, biographies, and pertinent reports too broad for categorization; histories or broad overviews of NASA programs.

99 GENERAL

Section 2 • Indexes

SUBJECT INDEX.....	A-1
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TYPICAL CITATION AND ABSTRACT

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ACCESSION NUMBER → N94-29363*# National Aeronautics and Space Administration. ← CORPORATE SOURCE

TITLE → IMPROVED IN-FLOW ACOUSTIC SENSOR Patent Application

INVENTOR → CHRISTOPHER S. ALLEN, inventor (to NASA) (Sterling Software, Inc., Moffett Field, CA.) 10 Nov. 1993 22 p (Contract NAS2-13210)

CONTRACT NUMBER → (Contract NAS2-13210)

NASA CASE NUMBER AND US PATENT APPLICATION SERIAL NUMBER → (NASA-CASE-ARC-12001-1; NAS 1.71:ARC-12001-1; US-PATENT-APPL-SN-149896) Avail: CASI HC A03/MF A01 ← AVAILABILITY SOURCE

An acoustic sensor for measuring acoustic waves contained in fluid flowing over the sensor is described. The acoustic sensor reduces any unwanted self-noise associated with the flowing fluid by providing a nose cone having proper aerodynamic properties and by positioning the diaphragm of a microphone of the sensor at a location where any unwanted noise is at a relatively low level. The nose cone has a rounded, blunt or even sharp tip, neither of which creates any major disturbances in the flowing fluid which it intercepts.

← ABSTRACT

NASA

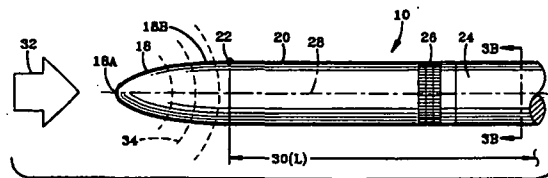
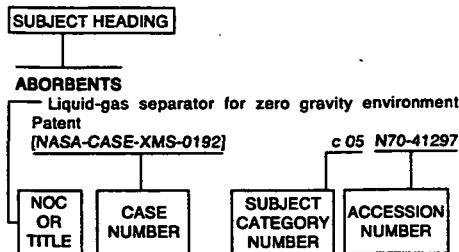


FIG-3A

← KEY ILLUSTRATION

Typical Subject Index Listing



The subject heading is a key to the subject content of the document. A brief description of the document, e.g., title, title plus a title extension, or notation of content (NOC), is included for each subject entry to indicate the subject heading context; these descriptions are arranged under each subject heading in ascending accession number order. The case number serves as the prime access number to the patent documents. The subject category number indicates the category in Section 1 (Abstracts) in which the patent citation and abstract are located. The accession number denotes the number by which the citation is identified within the subject category.

A

ABERRATION

- High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
- Control system for ruling blazed, aberration corrected diffraction gratings
[NASA-CASE-GSC-13240-1] c 35 N92-10186
- Aberration correction of unstable resonators
[NASA-CASE-NPO-18662-1-CU] c 74 N93-28426
- Aberration correction of unstable resonators
[NASA-CASE-NPO-18791-1-CU] c 35 N94-15987

ABILITIES

- Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280

ABLATION

- Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
- Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925
- Hypersonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475
- Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586
- Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
- Ablative system
[NASA-CASE-LEW-10359] c 33 N72-25911
- Ablative shielding for hypervelocity projectiles
[NASA-CASE-MSC-21884-1] c 27 N93-29088

ABLATIVE MATERIALS

- Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
- Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
- Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
- Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032

- Ablation structures Patent
[NASA-CASE-XMS-01816] c 33 N71-15623
- Method and apparatus for making a heat insulating and ablative structure Patent
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Air conditioning system and component therefore distributing air flow from opposite directions
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Method and apparatus for fluffing, separating, and cleaning fibers
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Variable cycle gas turbine engines
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[NASA-CASE-LAR-12638-1] c 04 N84-14132

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[NASA-CASE-XLA-06958] c 02 N71-11038

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[NASA-CASE-XLA-08967] c 02 N71-27088

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Aircraft control position indicator
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High performance forward swept wing aircraft
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Actuated forebody strakes
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Rotatable non-circular forebody flow controller
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[NASA-CASE-FRC-10113-1] c 33 N80-26599

Aircraft engine nozzle
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Elevated temperature aluminum alloys
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Air speed and altitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036

Cooling system for high speed aircraft
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System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075

Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671

Fire resistant polyamide based on 1-(diorganooxyphosphoryl)methyl-2,4- and -2,6-diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568

Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083

Control surface actuator
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Wingtip vortex turbine
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Combined optical attitude and altitude indicating instrument Patent
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Head-up attitude display
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G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381

Magnetic heading reference
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Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140

Heads up display
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System for indicating fuel-efficient aircraft altitude
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[NASA-CASE-ARC-10179-1] c 21 N72-22619

Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930

Vehicle simulator binocular multiplanar visual display system
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Full color hybrid display for aircraft simulators — landing aids
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[NASA-CASE-LEW-13102-1] c 33 N85-29144

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Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239

ALIGNMENT

Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242

Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740

Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214

Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188

ALERTNESS

Method of encouraging attention by correlating video game difficulty with attention level
[NASA-CASE-LAR-15022-1] c 53 N93-28128

ALGEBRA

High level language-based robotic control system
[NASA-CASE-NPO-17918-2-CU] c 63 N94-29465

ALGORITHMS

Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713

Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016

Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691

Aerodynamic design optimization using sensitivity analysis and computational fluid dynamics
[NASA-CASE-LAR-14815-1-CU] c 34 N92-29830

Multiresponse imager and imaging process for improved resolution
[NASA-CASE-LAR-14779-1] c 74 N92-29951

Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N92-33019

Terminal slider control of nonlinear robotic systems
[NASA-CASE-NPO-18584-1-CU] c 37 N93-11177

Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-2-CU] c 61 N93-14882

Neural network training by integration of adjoint systems of equations forward in time
[NASA-CASE-NPO-18586-1-CU] c 63 N93-17276

Fault-tolerant fiber optic backplane
[NASA-CASE-LAR-14785-1] c 74 N93-19052

Neural network for processing both spatial and temporal data with time based back-propagation
[NASA-CASE-MS-C-21874-1] c 63 N94-20366

ALIGNMENT

Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898

Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371

Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955

Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axis systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688

Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798

Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125

Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379

Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893

Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397

Spacecraft docking and alignment system — using television camera system
[NASA-CASE-MS-C-12559-1] c 18 N76-14186

Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276

Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993

Precision alignment apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478

Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523

Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650

X-ray determination of parts alignment
[NASA-CASE-MS-C-20418-1] c 74 N86-20126

Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447

- Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
- Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360
- Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
- Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-28553
- Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
- Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023
- Thermal compensating mount
[NASA-CASE-LAR-14207-1] c 35 N91-14590
- Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591
- Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N91-21541
- Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N91-21543
- Three dimensional moire pattern alignment
[NASA-CASE-MSC-21416-1] c 74 N91-32922
- High reliability robot friendly ORU interface
[NASA-CASE-GSC-13360-1] c 37 N92-23377
- ALKALI HALIDES**
- Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118
- ALKALI METALS**
- Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
- Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
- Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
- Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
- Preparation of alkali metal dispersions
[NASA-CASE-XNP-08876] c 17 N73-28573
- Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
- Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347
- Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
- Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118
- AMTEC vapor-vapor series connected cells
[NASA-CASE-NPO-18667-1-CU] c 33 N93-19330
- Ion exchange polymers and method for making
[NASA-CASE-LEW-15576-1] c 27 N93-31316
- Alkali metal for ultraviolet band-pass filter
[NASA-CASE-NPO-18433-1-CU] c 74 N94-10657
- ALKALINE BATTERIES**
- Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10728
- Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
- Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138
- Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
- Polyvinyl alcohol battery separator containing inert filler — alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
- Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
- Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
- Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
- Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
- Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
- Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
- Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176

- Additive for zinc electrodes — electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
- Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
- ALKALINE EARTH METALS**
- Ion exchange polymers and method for making
[NASA-CASE-LEW-15576-1] c 27 N93-31316
- ALKALINE EARTH OXIDES**
- Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
- ALKYL COMPOUNDS**
- Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
- Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
- Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185
- Substituted 1,1,1-triaryl 2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-7] c 23 N93-17412
- ALKYNES**
- High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
- ALLOYING**
- High temperature creep and oxidation resistant chromium silicide matrix alloy containing molybdenum
[NASA-CASE-LEW-15697-1] c 26 N94-36275
- ALLOYS**
- Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
- Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
- Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
- Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
- Enhanced diffusion welding
[NASA-CASE-LEW-11388-1] c 15 N73-32358
- Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
- Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
- Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303
- Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940
- Gradient tempering process
[NASA-CASE-MFS-28496-1] c 26 N92-34239
- ALPHA PARTICLES**
- Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
- ALPHANUMERIC CHARACTERS**
- X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517
- ALTERNATING CURRENT**
- Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559
- Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
- Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
- Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
- Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
- Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950
- A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
- Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
- Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
- Power factor control system for ac induction motors
[NASA-CASE-MFS-23989-1] c 33 N81-27395
- Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422

- Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
- Coupling an induction motor type generator to ac power lines — making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
- Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
- Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877
- Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
- ALTIMETERS**
- Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
- ALTITUDE**
- Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
- ALTITUDE CONTROL**
- Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
- ALUMINIDES**
- Fusion welding with self-generated filler metal
[NASA-CASE-LEW-15671-1] c 37 N94-29557
- ALUMINUM**
- Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
- Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
- Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
- Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
- Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
- Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
- Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
- Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
- Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
- Method of fluidless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455
- Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
- Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 26 N81-15119
- Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
- Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
- Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014
- Production of multilayer fibers
[NASA-CASE-MFS-28431-1] c 24 N92-17870
- Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-3] c 35 N93-14714
- Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17914-1-CU] c 39 N93-24596
- ALUMINUM ALLOYS**
- Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743
- Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
- Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333
- Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
- Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
- Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
- Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621
- High temperature, oxidation resistant noble metal-Al alloy thermocouple
[NASA-CASE-LEW-15515-1] c 35 N94-23826
- Al-Al base composite containing high volume fraction of AlN for advanced engines
[NASA-CASE-LEW-15818-1] c 24 N94-36752
- ALUMINUM ARSENIDES**
- InP solar cell with window layer
[NASA-CASE-LEW-15606-1] c 44 N94-35230

ALUMINUM COATINGS

- Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
- Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
- Method of protecting the surface of a substrate — by applying aluminide coating
[NASA-CASE-LEW-11696-1] c 37 N75-13261
- Duplex aluminized coatings
[NASA-CASE-LEW-11696-2] c 26 N75-19408
- Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367
- Method of protecting a surface with a silicon-slurry/aluminide coating — coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
- Silicon-slurry/aluminide coating — protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
- Composite flexible blanket insulation
[NASA-CASE-ARC-11955-1-CU] c 24 N94-29509

ALUMINUM COMPOUNDS

- Synthesis of dawsonites — for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
- Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118
- Production of multilite fibers
[NASA-CASE-MFS-28431-1] c 24 N92-17870

ALUMINUM GALLIUM ARSENIDES

- Planar varactor frequency multiplier devices with blocking barrier
[NASA-CASE-NPO-18428-1-CU] c 33 N94-23821

ALUMINUM OXIDES

- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143
- Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
- Silicon carbide fiber reinforced strontium aluminosilicate glass-ceramic matrix composite
[NASA-CASE-LEW-15263-1] c 24 N93-11543
- Method of producing a silicon carbide fiber reinforced strontium aluminosilicate glass-ceramic matrix composite
[NASA-CASE-LEW-15263-2] c 24 N94-15929
- Thin composite solid electrolyte film for lithium batteries
[NASA-CASE-NPO-18694-1-CU] c 33 N94-17325
- Guanidine based vehicle/binders for use with oxides, metals, and ceramics
[NASA-CASE-LEW-15314-1] c 27 N94-20195

ALUMINUM SILICATES

- Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184
- Fiber-reinforced monoclinic celsian matrix composite material
[NASA-CASE-LEW-15269-1] c 24 N93-20040

AMBIENT TEMPERATURE

- High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
- Anode for rechargeable ambient temperature lithium cells
[NASA-CASE-NPO-18580-1-CU] c 33 N94-29505

AMBIGUITY

- Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318
- Method for ambiguity resolution in range-Doppler measurements
[NASA-CASE-GSC-13542-1] c 32 N94-29739

AMIDES

- Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
- Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078

AMINES

- Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
- Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
- Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
- Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
- Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353

- Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
- Metal (2,4,4',4'',4''' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
- Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
- Amine terminated bispartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
- Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469
- Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692
- Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1] c 27 N93-25997

AMINO ACIDS

- Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
- Amino acid sequences for the binding regions in serum albumin proteins
[NASA-CASE-MFS-28402-1] c 51 N93-28952

AMMONIA

- Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578

AMMONIUM NITRATES

- High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342

AMMONIUM PERCHLORATES

- Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
- Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471

AMORPHOUS MATERIALS

- Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
- Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551
- Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
- Method of intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-1] c 24 N92-16025
- Anode for rechargeable ambient temperature lithium cells
[NASA-CASE-NPO-18580-1-CU] c 33 N94-29505

AMORPHOUS SILICON

- Diamond composite films for protective coatings on metals and method of formation
[NASA-CASE-NPO-18501-1-CU] c 27 N93-28426

AMPLIFICATION

- Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
- Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782
- Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
- Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
- High voltage transistor amplifier with constant current load
[NASA-CASE-NPO-11023] c 09 N72-17155
- Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410
- Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
- Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356

AMPLIFIER DESIGN

- Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
- Bio-isolated dc operational amplifier — for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
- High power metallic halide laser — amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
- Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
- Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
- Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232

AMPLIFIERS

- Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466
- Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185
- High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831
- Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
- Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
- RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
- Full wave modulator-demodulator amplifier apparatus — for generating rectified output signal
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[NASA-CASE-NPO-11373] c 13 N72-25323

Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376

Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284

Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383

Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217

ATMOSPHERIC DENSITY
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

ATMOSPHERIC ENTRY
Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087

Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563

Orbital and entry tracking accessory for globes — to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

ATMOSPHERIC ENTRY SIMULATION
Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267

Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436

ATMOSPHERIC MOISTURE
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681

Wet atmospheric generation apparatus
[NASA-CASE-MFS-28177-1] c 35 N91-21496

ATMOSPHERIC PHYSICS
Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318

ATMOSPHERIC PRESSURE
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Method of and apparatus for measuring temperature and pressure — atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243
Ultra-high temperature stability Joule-Thomson cooler with capability to accommodate pressure variations
[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-2] c 35 N93-17626
Plasma heating for containerless and microgravity materials processing
[NASA-CASE-NPO-18819-1-CU] c 29 N94-29371

ATMOSPHERIC RADIATION
Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432

ATMOSPHERIC REFRACTION
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344

ATMOSPHERIC SCATTERING
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
Micro pulse laser radar
[NASA-CASE-GSC-13493-1] c 32 N94-23827

ATMOSPHERIC SOUNDING
Microwave limb sounder — measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
Electron reversal ionizer for detection of trace species using a spherical cathode
[NASA-CASE-NPO-18870-1-CU] c 72 N94-17329

ATMOSPHERIC TEMPERATURE
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
Method of and apparatus for measuring temperature and pressure — atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639

ATMOSPHERIC TURBULENCE
Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493

ATOMIC BEAMS
Variable energy, high flux, ground-state atomic oxygen source
[NASA-CASE-NPO-16640-1-CU] c 72 N87-21661
Method and apparatus for producing a thermal atomic oxygen beam
[NASA-CASE-LEW-15614-1] c 72 N94-23825

ATOMIC EXCITATIONS
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127

ATOMIC STRUCTURE
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118

ATOMIZERS
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Constant-output atomizer — Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255

ATS
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978

ATTACHMENT
Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150

ATTENTION
Method of encouraging attention by correlating video game difficulty with attention level
[NASA-CASE-LAR-15022-1] c 53 N93-28128

ATTENUATORS

Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
Pulse transducer with artifact signal attenuator — heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Rocket engine nozzle attenuator
[NASA-CASE-MFS-28739-1] c 20 N93-28324
Underwing compression vortex attenuation device
[NASA-CASE-LAR-14744-1] c 02 N94-10673

ATTITUDE (INCLINATION)

Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172
Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391

ATTITUDE CONTROL

Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02877] c 11 N71-10746
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750
Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Temperature compensated digital inertial sensor — circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130
Programmable scan/read circuitry for charge coupled device imaging detectors — spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808
Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380

ATTITUDE GYROS

Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113

ATTITUDE INDICATORS

Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
Head-up attitude display
[NASA-CASE-ERC-10392] c 21 N73-14692
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

ATTITUDE STABILITY

Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064

AUDIO EQUIPMENT

Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244
Acoustic device and method for measuring gas densities
[NASA-CASE-NPO-18155-1-CU] c 71 N93-13421
Multi-channel spatialization systems for audio signals
[NASA-CASE-ARC-12013-1-CU] c 32 N94-29364

AUDIO FREQUENCIES

Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
Emergency locating transmitter
[NASA-CASE-GSC-12821-2] c 33 N91-31530

AUDIO SIGNALS

Method and apparatus for operating on compressed PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513
Multi-channel spatialization systems for audio signals
[NASA-CASE-ARC-12013-1-CU] c 32 N94-29364

AUDITORY DEFECTS

Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375
Visual aid for the hearing impaired
[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522

AUDITORY PERCEPTION

Auditory display for the blind
[NASA-CASE-HON-10832-1] c 71 N74-21014

AUDITORY SIGNALS

Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244
Head related transfer function pseudo-stereophony
[NASA-CASE-ARC-11919-1-NP] c 71 N94-23312

AUDITORY STIMULI

Auditory display for the blind
[NASA-CASE-HON-10832-1] c 71 N74-21014

AUGER EFFECT

Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482

AUSTENITE

Fastening apparatus having shape memory alloy actuator
[NASA-CASE-MSC-21935-1] c 37 N93-13423

AUSTENITIC STAINLESS STEELS

Nickel aluminate coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257

AUTOCLAVES

System for sterilizing objects — cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

AUTOCORRELATION

Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503

Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476

AUTOMATIC CONTROL
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
Automatic welding speed controller Patent
[NASA-CASE-XMF-01730] c 15 N71-23050
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Traffic survey system — using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466
Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
Solar energy control system — temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
Automatic thermal switch — spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668

Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999
Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729
Standard remote manipulator system docking target augmentation for automated docking
[NASA-CASE-MFS-28419-1] c 18 N91-27200
Ultra-high temperature stability Joule-Thomson cooler with capability to accommodate pressure variations
[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156
Spline screw autochanger
[NASA-CASE-GSC-13435-1] c 37 N93-29505
Welding wire pressure sensor assembly
[NASA-CASE-MFS-26216-1-SB] c 37 N94-29506
Adjustable control station with movable monitors and cameras for viewing systems in robotics and telecommunications
[NASA-CASE-NPO-17837-1-CU] c 74 N94-35384

AUTOMATIC CONTROL VALVES
Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648
Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483

AUTOMATIC FREQUENCY CONTROL
Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385

AUTOMATIC GAIN CONTROL
Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373
Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385

AUTOMATIC TEST EQUIPMENT
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987

AUTOMATION
Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480
General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N93-18282

AUTOMOBILE ENGINES
Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
Controller for computer control of brushless dc motors — automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352

AUTOMOBILE FUELS
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700

AUTONOMOUS NAVIGATION

Autonomous navigation system — gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N92-22036
Global Positioning System Synchronized Active Light Autonomous Docking System
[NASA-CASE-MFS-28853-1] c 18 N94-36825

AUTONOMY
Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N92-28750

AUXILIARY POWER SOURCES
Independent power generator
[NASA-CASE-LAR-11208-1] c 44 N78-32539
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319

AVERAGE

Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701

AVIONICS

Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Preload release mechanism
[NASA-CASE-MSC-22327-1] c 37 N94-36839

AXES (REFERENCE LINES)

Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992
Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

AXES OF ROTATION

Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081
Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620

AXIAL COMPRESSION LOADS

Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312

AXIAL FLOW

Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194

AXIAL FLOW PUMPS

Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974

AXIAL FLOW TURBINES

Multi-stage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
Multi-stage multiple-reentry turbine Patent
[NASA-CASE-XLE-00085] c 28 N70-39895
Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335

AXIAL LOADS

Locking device with rolling detents Patent
[NASA-CASE-XMF-01371] c 15 N70-41829
Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511
Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N92-21726
Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N92-21727

AXIAL STRESS

Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511

AZIMUTH

Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091

- Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

AZINES

- Azine polymers and process for preparing the same
Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
Ultraviolet and thermally stable polymer compositions
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[NASA-CASE-ARC-11241-1] c 25 N81-14016
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[NASA-CASE-LAR-14145-1] c 27 N92-28751
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- Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662

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- Electronic background suppression method and apparatus for a field scanning sensor
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[NASA-CASE-NPO-18769-1-CU] c 74 N93-28133

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- Method and apparatus for background signal reduction in opto-acoustic absorption measurement
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- Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors
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[NASA-CASE-LAR-11155-1] c 35 N74-15091
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- Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
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[NASA-CASE-MFS-21462-1] c 33 N74-14935
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[NASA-CASE-LEW-13736-1] c 33 N84-27974

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[NASA-CASE-XNP-03835] c 06 N71-23499
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[NASA-CASE-GSC-10879-1] c 14 N72-25413
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[NASA-CASE-GSC-11092-2] c 04 N73-27052
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[NASA-CASE-MSC-16260-1] c 51 N80-16714

- Rapid, quantitative determination of bacteria in water — adenosine triphosphate
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[NASA-CASE-GSC-12039-1] c 51 N77-22794
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[NASA-CASE-XNP-03930] c 14 N69-24331
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[NASA-CASE-NPO-10337] c 14 N71-15604
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[NASA-CASE-LAR-10317-1] c 32 N71-16103
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[NASA-CASE-XLA-04605] c 32 N71-16106
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[NASA-CASE-KSC-10639] c 15 N73-26472
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[NASA-CASE-MFS-23513-1] c 74 N79-11865
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[NASA-CASE-NPO-15100-1] c 44 N84-14583
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[NASA-CASE-XMS-06761] c 05 N69-23192
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[NASA-CASE-NPO-13930-1] c 52 N79-14749

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- Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
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[NASA-CASE-MSC-18934-3] c 24 N82-26387

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- Thermo-protective device for balances Patent
[NASA-CASE-XAC-00648] c 14 N70-40400
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
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[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
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- Automatic balancing device Patent
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[NASA-CASE-NPO-10808] c 15 N71-27432
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[NASA-CASE-XLA-00013] c 15 N71-29136
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[NASA-CASE-LEW-10856-1] c 15 N72-22490
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[NASA-CASE-LEW-11087-1] c 15 N73-30458
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[NASA-CASE-LEW-11087-3] c 37 N74-21064
Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446
Spherical bearing — to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404
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[NASA-CASE-MFS-25833-1] c 35 N86-32698
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[NASA-CASE-MFS-28345-1] c 37 N91-14608
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[NASA-CASE-LEW-14776-1] c 37 N91-21540
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- Ballast system for maintaining constant pressure in a glove box
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- Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006

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- Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427

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- Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310

BALLOON SOUNDING

- Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c 34 N74-23039

BALLOON-BORNE INSTRUMENTS

- Rotating unbalanced-mass devices and methods for scanning balloon-borne experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N92-33010

BALLOONS

- Hot air balloon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c 02 N71-11037
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[NASA-CASE-XGS-03351] c 31 N71-16081
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008

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- Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
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[NASA-CASE-NPO-14473-1] c 37 N80-23654
Flexible robotic arm
[NASA-CASE-GSC-13161-1] c 37 N92-33634

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- Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
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[NASA-CASE-XNP-01107] c 10 N71-28859
Signal-to-noise ratio determination circuit
[NASA-CASE-GSC-11239-1] c 10 N73-25241
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[NASA-CASE-GSC-10990-1] c 09 N73-26195
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[NASA-CASE-GSC-12911-1] c 74 N86-29650
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Alkali metal for ultraviolet band-pass filter
[NASA-CASE-NPO-18433-1-CU] c 74 N94-10657

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- Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579
Self-tuning bandpass filter
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[NASA-CASE-LAR-10970-1] c 33 N76-14372
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[NASA-CASE-NPO-13801-1] c 36 N78-18410
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[NASA-CASE-NPO-14519-1] c 32 N80-23524
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- Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097

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- Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
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[NASA-CASE-LEW-15269-1] c 24 N93-20040

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- Method of making self lubricating fluoride-metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105

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Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c 15 N74-27360

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An improved SNS superconducting junction with weak link barrier and method of producing
[NASA-CASE-NPO-18552-1-CU] c 33 N92-24246

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Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198

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Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525

Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
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System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254

Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282

An improved SNS superconducting junction with weak link barrier and method of producing
[NASA-CASE-NPO-18552-1-CU] c 33 N92-24246

Multi-layer light-weight protective coating and method for application
[NASA-CASE-LAR-14448-1] c 27 N93-11912

Planar varactor frequency multiplier devices with blocking barrier
[NASA-CASE-NPO-18428-1-CU] c 33 N94-23821

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[NASA-CASE-NPO-18483-1-CU] c 76 N94-29501

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Short range laser obstacle detector — for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145

High-temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N91-27560

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Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303

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[NASA-CASE-XLA-01995] c 18 N71-23047

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[NASA-CASE-MSC-21589-1] c 54 N92-29137

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BATTERY CHARGERS

Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438

Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491

Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719

Method and apparatus for conditioning of nickel-cadmium batteries
[NASA-CASE-MFS-23270-1] c 44 N78-25531

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[NASA-CASE-XLA-07424] c 14 N71-18482

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Payload retention device
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[NASA-CASE-XGS-03304] c 09 N71-22988

Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618

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Integrated circuit package with lead structure and method of preparing the same
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Optical range finder having nonoverlapping complete images
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Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380

Over-under double-pass interferometer
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Collimated beam manifold with the number of output beams variable at a given output angle
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Dual-beam skin friction interferometer
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High speed multi focal plane optical system
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Projection lens scanning laser velocimeter system
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Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677

Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233

Dish antenna having switchable beamwidth — with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c 33 N75-19516

Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329

Switchable beamwidth monopulse method and system
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[NASA-CASE-HQN-10541-2] c 15 N71-27135

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[NASA-CASE-NPO-11087] c 23 N71-29125

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[NASA-CASE-NPO-14224-1] c 33 N80-18287

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Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695

Method and apparatus for Doppler frequency modulation of radiation
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Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578

Method for shaping and aiming narrow beams — sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443

Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072

Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304

Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065

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Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960

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Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895

Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479

Joint for deployable structures
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Bi-stem gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N89-23979

Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398

Wind tunnel balance
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Synchronously deployable double fold beam and planar truss structure
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Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670

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Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331

Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239

Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655

Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265

Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056

Direction sensitive laser velocimeter — determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422

System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
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BEARINGS

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[NASA-CASE-XLE-05033] c 15 N71-23810

Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537

Device for measuring bearing preload
[NASA-CASE-MFS-20434] c 11 N72-25288

Magnetic bearing — for supplying magnetic fluxes
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Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486

Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500

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[NASA-CASE-LEW-12477-1] c 37 N77-32501

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[NASA-CASE-LEW-11930-3] c 24 N80-33482

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[NASA-CASE-NPO-14395-1] c 37 N82-21587

Antenna groud replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043

Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323

Unidirectional flexural pivot
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Portable 90 degree proof loading device
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Method of recertifying a loaded bearing member
[NASA-CASE-LAR-14168-1] c 39 N92-34174

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[NASA-CASE-MFS-28589-1] c 37 N93-29618

Dynamic tester for rotor seals and bearings
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Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901

Solar heated oil shale pyrolysis process
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A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090

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Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499

BELLOWS

Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473

Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960

Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937

Internally supported flexible duct joint — device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686

Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706

Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999

High-temperature, bellows hybrid seal
[NASA-CASE-LEW-15570-1] c 37 N94-35373

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[NASA-CASE-LEW-14776-1] c 37 N91-21540

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[NASA-CASE-XMF-09422] c 07 N71-19436

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- Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971
- Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
- Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
- Automatic locking orthotic knee device
[NASA-CASE-MFS-28633-1] c 54 N94-20493

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- Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095

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- Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993
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[NASA-CASE-XMF-02964] c 14 N71-17659

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[NASA-CASE-XMF-03198] c 30 N70-40353
- Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606

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- Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626

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- Polymer of phosphorylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
- Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diamino benzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
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[NASA-CASE-ARC-11425-3] c 23 N90-23475
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- Method of making single crystal fibers
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- Heat transfer device and method of making the same
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- Digital phase-locked loop
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- Lead-oxygen dc power supply system having a closed loop oxygen and water system
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- Space vehicle with artificial gravity and earth-like environment
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- Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
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- Cell and method for electrolysis of water and anode
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- Oxidation resistant overlay coatings for low expansion substrates
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- Metal (2) 4,4',4'',4''' phthalocyanine tetraamines as curing agents for epoxy resins
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- High temperature cobalt-base alloy Patent
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- High temperature cobalt-base alloy Patent
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- High temperature ferromagnetic cobalt-base alloy Patent
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- Method of intercalating large quantities of fibrous structures
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- Fabrication of nanometer single crystal metallic CoSi2 structures on Si
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- High contrast cathode ray tube
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- Aircraft canopy lock
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- Encoder/decoder system for a rapidly synchronizable binary code Patent
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- Modular encoder
[NASA-CASE-NPO-10629] c 08 N72-18184
- Method and apparatus for decoding compatible convolutional codes
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- Digital plus analog output encoder
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- Twin-capacitive shaft angle encoder with analog output signal
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- VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061
- Electrostatically suspended rotor for angular encoder
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- Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N92-29133
- Picture data compression code using subband/transform coding with a Lempel-Ziv-based coder
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- Multi-speed multi-phase resolver converter
[NASA-CASE-MFS-28855-1] c 33 N94-29372
- Non-orthogonal subband/transform coder
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- Rate data encoder
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- Laser optical disk position encoder with active heads
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[NASA-CASE-LEW-15700-1] c 82 N93-28130
- Rotary encoding device
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- Static coefficient test method and apparatus
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- Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382

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- Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149

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- Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551
- Off-axis coherently pumped laser
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- Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
- Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
- Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
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COHERENT RADIATION

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- Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
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- Optically detonated explosive device
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- Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
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- Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071

COLD WELDING

- Method of cold welding using ion beam technology
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COLD WORKING

- Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346

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- Collapsible pistons
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- Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611
- Absorbent product to absorb fluids — for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
- Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495

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- Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
- Optical alignment device
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- Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
- Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
- Method for shaping and aiming narrow beams — sonar mapping and target identification
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- Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
- Ion beam accelerator system
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- Collimator of multiple plates with axially aligned identical random arrays of apertures
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- Multiplate focusing collimator — for scanning small near radiation sources
[NASA-CASE-MFS-20932-1] c 35 N75-19616
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[NASA-CASE-NPO-14632-1] c 32 N82-18443
- Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
- Multiprism collimator
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[NASA-CASE-LAR-10403] c 21 N71-11766

- Satellite aided vehicle avoidance system Patent
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- Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
- Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
- Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641
- Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c 03 N75-30132

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[NASA-CASE-LAR-13662-1] c 37 N88-14359

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- Colloid propulsion method and apparatus Patent
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COLLOIDAL PROPELLANTS

- Colloid propulsion method and apparatus Patent
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- Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
- Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213

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- Single layer multi-color luminescent display
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- A method of making a single layer multi-color luminescent display
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[NASA-CASE-XMF-01779] c 12 N71-20815
- Method for retarding dye fading during archival storage of developed color photographic film — inert atmosphere
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- Color television systems using a single gun color cathode ray tube Patent
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- Color television system
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- Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076
- Scan converting video tape recorder
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- System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893
- Full color hybrid display for aircraft simulators — landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
- Display system employing acousto-optic tunable filter
[NASA-CASE-NPO-18736-1-CU] c 74 N94-15933

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- Color perception tester
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- Lightweight structural columns — space erectable trusses
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- Telescoping columns — parabolic antenna support
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- Apparatus for computing square roots Patent
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- A system for controlling the oxygen content of a gas produced by combustion
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- Protective helmet assembly
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- An emergency response mobile robot for operations in combustible atmospheres
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- Rocket chamber leak test fixture
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- Rocket propellant injector Patent
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- Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
- Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
- Ignition system for monopropellant combustion devices Patent
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- Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
- Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507
- Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
- Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
- Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455
- Swirl can primary combustor
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- Method of electroforming a rocket chamber
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- Controlled separation combustor — airflow distribution in gas turbine engines
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- Fuel combustor
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- Direct heating surface combustor
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- General purpose rocket furnace
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- Reduction of nitric oxide emissions from a combustor
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- Fluidized bed coal combustion reactor
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- Micronized coal burner facility
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- Heat pipes to reduce engine exhaust emissions
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- A system for controlling the oxygen content of a gas produced by combustion
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- Diesel engine catalytic combustor system — aircraft engines
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- Low loss injector for liquid propellant rocket engines
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SUBJECT INDEX

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- Composite video and graphics display for camera viewing systems in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N93-18284

COMPUTER INFORMATION SECURITY

- Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N90-25583

COMPUTER NETWORKS

- High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
- Common data buffer system — communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
- Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
- Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
- Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N91-25693
- Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N92-15620
- Cascaded VLSI neural network architecture for on-line learning
[NASA-CASE-NPO-18645-1-CU] c 63 N92-34240
- Unipolar terminal-attractor based neural associative memory with adaptive threshold
[NASA-CASE-NPO-18790-1-CU] c 63 N94-15958
- A neural network with modular hierarchical learning
[NASA-CASE-NPO-19077-1-CU] c 63 N94-29492

COMPUTER PROGRAMMING

- Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
- Priority interrupt system — comprised of four registers
[NASA-CASE-NPO-13067-1] c 60 N76-18800
- Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N92-22033
- System for simultaneously loading program to master computer memory devices and corresponding slave computer memory devices
[NASA-CASE-MSC-21387-1] c 61 N93-18855
- Neural-network dedicated processor for solving competitive assignment problems
[NASA-CASE-NPO-17781-1-CU] c 60 N93-20116

COMPUTER PROGRAMS

- Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
- Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
- Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
- Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776
- Programmable remapper for image processing
[NASA-CASE-MSC-21350-1] c 60 N92-16563
- Encyclopedia of software components
[NASA-CASE-NPO-18435-1-CU] c 61 N92-30543

COMPUTER STORAGE DEVICES

- Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
- Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
- Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
- Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
- Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
- Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
- Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
- Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135

- Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198
- Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914
- Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
- Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701
- Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810
- Disk memory device
[NASA-CASE-GSC-13196-1] c 60 N92-29132
- Storage control system
[NASA-CASE-LAR-14651-1] c 82 N92-30386
- High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N93-14704
- Acceleration recorder and playback module
[NASA-CASE-MSC-22008-1] c 35 N93-17077

COMPUTER SYSTEMS DESIGN

- Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920
- Computer interface system
[NASA-CASE-NPO-13428-1] c 60 N77-12721
- Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776
- Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371
- Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
- Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N91-21542
- Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805
- Neural-network dedicated processor for solving competitive assignment problems
[NASA-CASE-NPO-17781-1-CU] c 60 N93-20116

COMPUTER SYSTEMS PERFORMANCE

- Neural network training by integration of adjoint systems of equations forward in time
[NASA-CASE-NPO-18586-1-CU] c 63 N93-17276

COMPUTER TECHNIQUES

- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
- Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131
- Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
- Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
- Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
- Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
- Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512
- Reconfigurable optical interconnections via dynamic computer-generated holograms
[NASA-CASE-NPO-19039-1-CU] c 74 N94-29491
- General purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N94-35501

COMPUTER VISION

- Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868
- Method and apparatus for predicting the direction of movement in machine vision
[NASA-CASE-NPO-17552-1-CU] c 54 N92-29129
- Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N93-18276
- Adjustable control station with movable monitors and cameras for viewing systems in robotics and teleoperations
[NASA-CASE-NPO-17837-1-CU] c 74 N94-35384

COMPUTERIZED SIMULATION

- Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
- Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
- Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
- Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

- Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713
- Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741
- Method and apparatus for predicting the direction of movement in machine vision
[NASA-CASE-NPO-17552-1-CU] c 54 N92-29129
- Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N93-29608

COMPUTERS

- Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
- Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
- Communications link for computers
[NASA-CASE-NPO-11161] c 08 N72-25207
- Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
- Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
- Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
- System for simultaneously loading program to master computer memory devices and corresponding slave computer memory devices
[NASA-CASE-MSC-21387-1] c 61 N93-18855
- Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N93-22032

CONCAVITY

- Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003

CONCENTRATORS

- Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
- Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
- Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
- Non-tracking solar energy collector system
[NASA-CASE-NPO-13817-1] c 44 N79-11471
- Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753
- Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
- Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
- Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174
- An improved patch for radiative coolers
[NASA-CASE-GSC-13503-1] c 37 N94-20127

CONCENTRIC CYLINDERS

- Flow resistivity instrument
[NASA-CASE-NPO-13503-1] c 43 N83-29783

CONCENTRIC SPHERES

- Method and apparatus for producing concentric hollow spheres — inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
- Method and apparatus for producing gas-filled hollow spheres — target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

CONCURRENT PROCESSING

- Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772

CONDENSATES

- Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
- Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139
- Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846

CONDENSERS (LIQUEFIERS)

- Condenser - Separator
[NASA-CASE-XLA-08845] c 15 N69-21465
- Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139

CONDENSING

- Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
- Polybenzimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14643-1] c 27 N92-29953

CONDUCTING FLUIDS

- Multiducted electromagnetic pump Patent
[NASA-CASE-NPO-10755] c 15 N71-27084

Internally supported flexible duct joint — device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686

CONDUCTING POLYMERS

Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121
Method of continuously determining crack length
[NASA-CASE-LAR-14480-1-CU] c 39 N93-29612

CONDUCTION ELECTRONS

Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358

CONDUCTIVE HEAT TRANSFER

Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808
Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N92-29120

CONDUCTIVITY

Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679

CONDUCTORS

Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
Method for making conductors for ferrite memory arrays — from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032
Electrorepulsive actuator
[NASA-CASE-NPO-17684-1-CU] c 33 N92-22042
A device for testing cables
[NASA-CASE-LAR-14093-1] c 33 N94-15988

CONES

Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475

CONFERENCES

Deployable video conference table
[NASA-CASE-ARC-11950-1] c 09 N94-23310

CONFIGURATION MANAGEMENT

Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544
Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N92-33019
Kinematic functions for redundancy resolution using configuration control
[NASA-CASE-NPO-18608-1-CU] c 63 N94-29504

CONFINEMENT

Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265

CONICAL BODIES

Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
Almond test body — for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672

CONICAL FLOW

Natural flow wing
[NASA-CASE-LAR-14281-1] c 02 N92-28729

CONICAL SCANNING

Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214
Conically scanned holographic lidar telescope
[NASA-CASE-GSC-13462-1] c 74 N94-20591

CONICAL SHELLS

Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-27222

CONJUGATES

Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210

CONNECTORS

Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389
Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
Connection system — insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
Collet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N91-14610
System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613
Mechanized fluid connector and assembly tool system with ball detents
[NASA-CASE-MSC-21434-1] c 37 N92-10197
Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MSC-21517-1] c 31 N92-16161
Connection space reduction mechanism
[NASA-CASE-GSC-13220-1] c 37 N92-29140
Fastening apparatus having shape memory alloy actuator
[NASA-CASE-MSC-21935-1] c 37 N93-13423
Work attachment mechanism/work attachment fixture
[NASA-CASE-GSC-13430-1] c 37 N93-14712
Robot-friendly connector — space truss structures
[NASA-CASE-MSC-21864-1] c 37 N93-20117
Connector systems for structures
[NASA-CASE-MSC-21998-1] c 37 N94-15707
A device for testing cables
[NASA-CASE-LAR-14093-1] c 33 N94-15988
Quick connect fastener
[NASA-CASE-MFS-28829-1] c 37 N94-29486

CONSCIOUSNESS

EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729

CONSISTENCY

Constant-output atomizer — Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

CONSOLES

Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

CONSOLIDATION

Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200

CONSTANTS

Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417

CONSTRAINTS

Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
Reefing system
[NASA-CASE-LAR-10129-2] c 37 N74-20063
Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677
Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
End effector with astronaut foot restraint
[NASA-CASE-MSC-21721-1] c 54 N92-16559

CONSTRUCTIONS

Gas arc constriction for plasma arc welding
[NASA-CASE-MFS-28844-1] c 37 N93-31292

CONSTRUCTION

Glove attachment
[NASA-CASE-MSC-21632-1] c 54 N92-34210
Counter-balanced, multiple cable construction crane
[NASA-CASE-LAR-14565-1-CU] c 37 N94-20369

CONSTRUCTION MATERIALS

Foldable construction block
[NASA-CASE-MSC-12233-1] c 15 N72-25454
Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845
CONTACT POTENTIALS
Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408
CONTAINERLESS MELTS
Method of crystallization — in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111
Apparatus and method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489
Plasma heating for containerless and microgravity materials processing
[NASA-CASE-NPO-18819-1-CU] c 29 N94-29371

CONTAINERS

Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
Sharps container
[NASA-CASE-MSC-21776-1] c 31 N92-33612

CONTAINMENT

Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991

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Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N92-16122
Spiral fluid separator
[NASA-CASE-MFS-28658-1] c 34 N94-20361

CONTAMINATION

Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15822
Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755
High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N92-16241
Swept wing attachment line contamination fence
[NASA-CASE-LAR-13400-1] c 02 N93-22015

CONTINUOUS RADIATION

CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Pseudo continuous wave instrument — ultrasonics
[NASA-CASE-LAR-12260-1] c 35 N79-10390
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713

CONTINUOUS WAVE LASERS

High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c 36 N75-27364
Continuous plasma laser — method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416

SUBJECT INDEX

CONTROL VALVES

Stark effect spectrophone for continuous absorption spectra monitoring — a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159

Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589

Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943

Tunable CW diode-pumped Tm,Ho:YLF4 laser operating at or near room temperature
[NASA-CASE-NPO-18611-1-CU] c 36 N93-30415

CONTINUOUS WAVE RADAR
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680

FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264

Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568

CONTINUUM FLOW
Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423

CONTOUR SENSORS
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

CONTOURS
Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586

Contourograph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c 10 N72-20225

Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423

Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904

Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724

Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439

Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388

Surface conforming thermal/pressure seal — tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408

Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

CONTROL
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191

Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755

Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175

Power factor control system for ac induction motors
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Geometrical vapor blocker for parallel condensation tubes requiring cooling
[NASA-CASE-MS-C-22090-1] c 34 N94-15962

Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N94-20371

COORDINATES

Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907

Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110

Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056

Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512

Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544

COPOLYMERIZATION

Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885

Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982

Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560

Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304

Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725

Bis (4-(3,4-dimethylene-pyrrolyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418

COPOLYMERS

Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905

Dicyanocetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500

Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MS-C-14903-3] c 27 N80-24438

Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187

Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350

Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351

Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380

Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841

Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526

Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725

Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950

Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121

Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N92-31792

COPPER

Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044

Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903

Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126

Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469

Metal (2) 4,4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281

COPPER ALLOYS

Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201

Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015

Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

Method of forming low cost, formable High T(sub c) superconducting wire
[NASA-CASE-LEW-14676-2] c 76 N90-17454

Low cost, formable, high T(sub c) superconducting wire
[NASA-CASE-LEW-14676-1] c 33 N91-31529

Method of fabricating a rocket engine combustion chamber
[NASA-CASE-MFS-28569-1] c 27 N94-20541

COPPER CHLORIDES

Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538

COPPER COMPOUNDS

Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027

Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440

Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127

COPPER FLUORIDES

Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093

COPPER OXIDES

Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

An improved SNS superconducting junction with weak link barrier and method of producing
[NASA-CASE-NPO-18552-1-CU] c 33 N92-24246

CORDAGE

Method of forming a root cord restrained convolute section
[NASA-CASE-MS-C-12398] c 05 N72-20098

CORE STORAGE

Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198

CORES

Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c 37 N74-15128

Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392

Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296

Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681

Core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N93-14700

CORK (MATERIALS)

Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388

CORNEA

Three dimensional optic tissue culture and process
[NASA-CASE-MS-C-22368-1] c 51 N94-36765

CORRECTION

Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978

Alignment positioning mechanism
[NASA-CASE-MS-C-21502-1] c 37 N91-21543

CORRELATION

Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968

CORRELATION DETECTION

Correlation type phase detector — with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243

Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359

CORRELATORS

Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723

Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267

Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14841-1] c 32 N81-29308

Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323

Synchronous demodulator
[NASA-CASE-GSC-13179-1] c 33 N91-26438

CORROSION

Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

CORROSION PREVENTION

Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075

Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393

Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616

Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408

Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions — by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203

Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579

Method of protecting a surface with a silicon-slurry/aluminate coating — coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441

Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596

Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736

CORROSION RESISTANCE

High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644

Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688

High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025

CORRUGATED PLATES

- Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
- Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
- Corrosion resistant thermal barrier coating — protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
- Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
- Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
- Carbon granule probe microphone for leak detection — recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
- Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
- Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303

CORRUGATING

- Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
- Truss-core corrugation for compressive loads
[NASA-CASE-LAR-13438-1] c 31 N89-12786
- Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
- Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
- Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450

COSINE SERIES

- Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
- Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253

COSMIC DUST

- Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
- Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
- Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
- Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
- Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412

COST ANALYSIS

- Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460
- Backward assembly planning with DFA analysis
[NASA-CASE-NPO-18817-1-CU] c 31 N93-12202

COST EFFECTIVENESS

- Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
- Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N92-21999

COST REDUCTION

- Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614

COUCHES

- Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
- Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
- Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
- Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085

COULOMETERS

- Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
- Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
- State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596

COUNTERBALANCES

- Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629

COUNTERS

- Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
- Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910

- Electrochemical detection device — for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
- Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706
- Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
- Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
- Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005
- VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525
- Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128

COUNTING CIRCUITS

- Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
- Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
- Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502
- Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
- Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
- Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
- Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432
- Digital cardiometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
- Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
- Noninterruptible digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
- Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331
- Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706

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- High reliability robot friendly ORU interface
[NASA-CASE-GSC-13360-1] c 37 N92-23377
- Shaft mount for data coupler system
[NASA-CASE-LAR-13805-1] c 37 N94-20365

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- Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498

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- Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846
- Expandable support means
[NASA-CASE-NPO-11059] c 15 N72-17454
- Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
- Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
- Coupling an induction motor type generator to ac power lines — making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
- Magnetic drive coupling
[NASA-CASE-MSC-21171-1] c 37 N88-23973
- Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689

COUPLING CIRCUITS

- Floplop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547
- Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
- Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429
- Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
- Automatic quadrature control and measuring system — using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017
- Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
- Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422

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- Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927
- Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490

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- Quick release separation mechanism Patent
[NASA-CASE-XLA-01441] c 15 N70-41679
- Indexed keyed connection Patent
[NASA-CASE-XMS-02532] c 15 N70-41808
- Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
- Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805
- Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
- Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
- Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c 15 N72-22482
- Refrigerated coaxial coupling — for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
- Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
- Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
- Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
- Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
- Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
- Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
- Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
- Connection system — insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649
- Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037
- Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977
- Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
- Docking system for spacecraft
[NASA-CASE-MSC-21327-1] c 18 N90-11798
- Docking mechanism for spacecraft
[NASA-CASE-MSC-21386-1] c 18 N90-20126
- Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N91-14610
- System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613
- Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498
- Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N92-29120
- Connection space reduction mechanism
[NASA-CASE-GSC-13220-1] c 37 N92-29140
- Work attachment mechanism/work attachment fixture
[NASA-CASE-GSC-13430-1] c 37 N93-14712
- Connector systems for structures
[NASA-CASE-MSC-21998-1] c 37 N94-15707
- Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N94-20371
- Quick connect fastener
[NASA-CASE-MFS-28829-1] c 37 N94-29486

COVARIANCE

- Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154

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- Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
- Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
- Hatch cover
[NASA-CASE-MSC-21356-1] c 18 N90-19278

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- Thrust reverser for a long duct fan engine — for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293

CRACK GEOMETRY

- High speed thin plate fatigue crack monitor
[NASA-CASE-LAR-14816-1-SB] c 39 N93-19329
- Method of continuously determining crack length
[NASA-CASE-LAR-14480-1-CU] c 39 N93-29612

CRACK OPENING DISPLACEMENT

- Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160

CRACK PROPAGATION

- Fatigue testing apparatus
[NASA-CASE-LEW-14124-1] c 35 N90-23712
- High speed thin plate fatigue crack monitor
[NASA-CASE-LAR-14816-1-SB] c 39 N93-19329

SUBJECT INDEX

CRACK TIPS

Flux-focusing eddy current probe and method for flaw detection
[NASA-CASE-LAR-15046-1] c 38 N94-29366

CRACKING (FRACTURING)

Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387

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Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
Method of continuously determining crack length
[NASA-CASE-LAR-14480-1-CU] c 39 N93-29612
Flux-focusing eddy current probe and method for flaw detection
[NASA-CASE-LAR-15046-1] c 38 N94-29366

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Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
Counter-balanced, multiple cable construction crane
[NASA-CASE-LAR-14565-1-CU] c 37 N94-20369

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Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140

CREEP RUPTURE STRENGTH

Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B
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[NASA-CASE-XLE-02082] c 17 N71-16026

Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647

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High temperature creep and oxidation resistant chromium silicide matrix alloy containing molybdenum
[NASA-CASE-LEW-15697-1] c 26 N94-36275

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Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375

CRITICAL EXPERIMENTS

Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372

CRITICAL TEMPERATURE

Stable superconducting magnet — high current levels below critical temperature
[NASA-CASE-XMF-05373-1] c 33 N79-21264

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Cross correlation anomaly detection system
[NASA-CASE-NPO-13263] c 38 N78-17395
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
Optoelectronic associative memory
[NASA-CASE-NPO-18278-1-CU] c 74 N94-20303

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Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
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[NASA-CASE-LAR-13019-1] c 07 N85-35194
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
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[NASA-CASE-LAR-13563-1] c 34 N91-23410
Method of measuring cross-flow vortices by use of an array of hot-film sensors
[NASA-CASE-LAR-14824-1-SB] c 34 N93-26000

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Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358

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Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
Crossed-field MHD plasma generator/accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562

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Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516

Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced

[NASA-CASE-ARC-11248-1] c 27 N81-17259
The 1,2,4-oxadiazole elastomers — heat resistant polymers
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Lyophilized spore dispenser
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Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
Automatic fluid dispenser
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[NASA-CASE-XLE-04946] c 17 N71-24911
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[NASA-CASE-LAR-12785-1] c 37 N84-16561

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[NASA-CASE-XLE-06969] c 17 N71-24142
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[NASA-CASE-LAR-14427-1] c 23 N92-29141
An interferometer having fused optical fibers, and apparatus and method using the interferometer
[NASA-CASE-LAR-14640-1-CU] c 74 N93-17052
Polybenzoxazole via aromatic nucleophilic displacement
[NASA-CASE-LAR-14606-1-CU] c 23 N94-20540

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Self-calibrating displacement transducer Patent
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[NASA-CASE-XLA-09346] c 15 N71-28740
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[NASA-CASE-NPO-13519-1] c 33 N76-19338
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[NASA-CASE-NPO-14212-1] c 52 N80-27072
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[NASA-CASE-XFR-00756] c 02 N71-13421
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[NASA-CASE-ERC-10031] c 12 N71-18603
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[NASA-CASE-XKS-06167] c 08 N71-24890
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[NASA-CASE-XNP-09759] c 08 N71-24891
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[NASA-CASE-NPO-10745] c 08 N72-22164
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[NASA-CASE-NPO-11342] c 09 N72-25248
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[NASA-CASE-MSC-12372-1] c 31 N72-25842
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[NASA-CASE-GSC-11553-1] c 35 N74-15831
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[NASA-CASE-NPO-14174-1] c 74 N79-20856
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[NASA-CASE-LAR-12251-1] c 74 N80-27185
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System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
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[NASA-CASE-ARC-11158-1] c 09 N82-24212
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[NASA-CASE-NPO-14567-1] c 33 N83-18996
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[NASA-CASE-GSC-12640-1] c 74 N84-11920
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[NASA-CASE-NPO-15432-1] c 32 N85-29117
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[NAS 1.71-NPO-15494-2] c 35 N85-34373
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[NASA-CASE-LAR-12518-1] c 06 N86-27280
Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
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[NASA-CASE-NPO-16932-1CU] c 33 N87-15413
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[NASA-CASE-LAR-12984-1] c 06 N87-22678
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[NASA-CASE-LAR-13407-1] c 33 N87-28831
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[NASA-CASE-LAR-13306-1] c 82 N87-29372
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[NASA-CASE-LAR-14049-1] c 07 N89-23466
Enhanced single layer multi-color or luminescent display with coactivators
[NASA-CASE-LAR-14181-1] c 76 N81-21911
Airplane takeoff and landing performance monitoring system
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[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885
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Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126
Single layer multi-color luminescent display and method of making
[NASA-CASE-LAR-13616-3] c 74 N92-29158
Accelerometer method and apparatus for integral display and control functions
[NASA-CASE-MSC-21961-1] c 35 N92-29952
Composite video and graphics display for camera viewing systems in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N93-18284
Virtual reality flight control display with six-degree-of-freedom controller and spherical orientation overlay
[NASA-CASE-NPO-18733-1-CU] c 06 N93-30416
Display system employing acousto-optic tunable filter
[NASA-CASE-NPO-18736-1-CU] c 74 N94-15933

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[NASA-CASE-GSC-10891-1] c 10 N71-26626
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242
Consecutive plate acoustic suppressor apparatus and methods
[NASA-CASE-LEW-15430-1] c 71 N93-17051

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[NASA-CASE-LAR-14398-1] c 25 N92-30098

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Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458
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[NASA-CASE-MSC-21953-1-NP] c 37 N93-17271

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Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
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Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N92-33057

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Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Terminal guidance sensor system — space shuttle coupling to orbiting satellites
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Method and apparatus for measuring distance
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Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Method and apparatus for distillation of liquids Patent
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[NASA-CASE-XNP-08124-2] c 06 N73-13129

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[NASA-CASE-NPO-15342-1] c 60 N83-32342
Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713
Method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N91-14769
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N91-25693

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Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175

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High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332

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Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490

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Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468

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A synchronous binary array divider
[NASA-CASE-ERC-10180-1] c 60 N74-20836

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[NASA-CASE-XLA-02705] c 08 N71-15908

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Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492

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Emergency escape system Patent
[NASA-CASE-MSC-12086-1] c 05 N71-12345
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[NASA-CASE-MSC-20304-1] c 37 N82-31690

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Sub-Kelvin resistance thermometer
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[NASA-CASE-XGS-02749] c 07 N69-39978
- Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
- Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
- Doppler shift system — system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
- Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
- Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
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- Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669
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[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321
- Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N91-25316
- Edge technique for measurement of laser frequency shifts including the Doppler shift
[NASA-CASE-GSC-13343-1] c 36 N91-28557
- Doppler shift compensation system for laser transmitters and receivers
[NASA-CASE-GSC-13194-1] c 36 N93-18287

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- Miniature spectrally selective dosimeter
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[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061

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- Flexible wing deployment device Patent
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- Lightweight, variable solidity knitted parachute fabric — for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034
- Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
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[NASA-CASE-XAC-00139] c 02 N70-34856
- Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
- Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
- Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
- Combined riblet and lebu drag reduction system
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- Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
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[NASA-CASE-LAR-13532-1] c 34 N91-14562
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- Stall departure resistance enhancer
[NASA-CASE-LAR-14221-1] c 06 N93-19023
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[NASA-CASE-LEW-14791-1] c 02 N94-10672

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[NASA-CASE-MSC-21703-1] c 31 N91-25305

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[NASA-CASE-XLA-00183] c 14 N70-40239
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[NASA-CASE-MFS-23551-1] c 04 N76-26175

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- Retractable tool bit having slider type catch mechanism
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[NASA-CASE-GSC-12636-1] c 31 N83-27058
- Method for machining holes in composite materials
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- Soil penetrometer
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[NASA-CASE-LEW-10233] c 10 N71-27126

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[NASA-CASE-NPO-14845-1] c 27 N82-28442
- Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176

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[NASA-CASE-NPO-10985] c 14 N73-20478
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- Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N90-23242
- Crystal growth apparatus
[NASA-CASE-MFS-28182-1] c 76 N90-24169
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[NASA-CASE-MFS-28422-1] c 29 N91-17250

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- Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
- Human serum albumin crystals and method of preparation
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[NASA-CASE-MSC-21271-1] c 34 N90-21999

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- Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489
- Instrumentation for sensing moisture content of material using a transient thermal pulse
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- Process for making a noble metal on tin oxide catalyst
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- Composite seal for turbomachinery
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- Duct coupling for single-handed operation Patent
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[NASA-CASE-MFS-19194-1] c 37 N76-14460
- Apparatus for supplying conditioned air at a substantially constant temperature and humidity
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- Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
- Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
- Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243

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- Belt for transmitting power from a cogged driving member to a cogged driven member
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- Composite thermal barrier coating
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[NASA-CASE-LAR-10590-1] c 15 N70-26819
- Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

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[NASA-CASE-ARC-10463-1] c 09 N73-32111
- Laser head for simultaneous optical pumping of several dye lasers — with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655

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- Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
- Method for retarding dye fading during archival storage of developed color photographic film — inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
- Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N92-21588

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- Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
- Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
- Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082

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- Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16369
- System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
- Dynamic pattern matcher using incomplete data
[NASA-CASE-MSC-21415-1-SB] c 61 N93-18858

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- Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
- Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
- Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
- Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160
- Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-2-SB] c 34 N91-31596

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[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
- Numerical control fabrication technique for dynamic composite models
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[NASA-CASE-XLE-01300] c 15 N70-41993

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- Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N94-10669
- Method for making a dynamic pressure sensor and a pressure sensor made according to the method
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- Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786
- Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
- Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
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[NASA-CASE-LAR-14272-1-CU] c 14 N93-24598
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- Dynamic range compression/expansion of light beams by photorefractive crystals
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- A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
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- Orbital debris sweeper and method
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- Echo tracker/range finder for radars and sonars
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- Diffuser/ejector system for a very high vacuum environment
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- Instrument for measuring torsional creep and recovery Patent
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[NASA-CASE-XLA-01019] c 15 N70-40156

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- Meter for use in detecting tension in straps having predetermined elastic characteristics
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- Extensometer Patent
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- Vacuum pressure molding technique
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- Bifunctional monomers having terminal oxime and cyano or amide groups
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- Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
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[NASA-CASE-NPO-13139-1] c 60 N76-21914

Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

A method of detecting and locating electrical current imbalances
[NASA-CASE-LEW-15407-1] c 33 N94-15706

Cellulose triacetate, thin film dielectric capacitor
[NASA-CASE-NPO-18935-1-CU] c 33 N94-15952

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High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516

High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569

Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798

Signal conditioning circuit apparatus — with constant input impedance
[NASA-CASE-ARC-10348-1] c 33 N75-19518

Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525

Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335

ELECTRICAL INSULATION

Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929

Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628

Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694

Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781

Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447

Bio-isolated dc operational amplifier — for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851

Stored charge transistor
[NASA-CASE-NPO-11156-2] c 33 N75-31331

Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181

Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366

Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419

Coaxial cable connector
[NASA-CASE-NPO-16784-1-CU] c 33 N88-14270

Low dielectric polyimides
[NASA-CASE-LAR-14987-2] c 27 N94-17559

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Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785

Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516

Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530

Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014

Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431

High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583

Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586

Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037

Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087

Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244

Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246

Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601

Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339

Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390

Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525

Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650

Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779

Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659

Four-terminal electrical testing device — initiator bridgeway resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555

Method and apparatus for frequency spectrum analysis
[NASA-CASE-NPO-17759-1-CU] c 32 N92-29124

Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-2-CU] c 47 N93-10108

Constant frequency pulsed phase-locked loop measuring device
[NASA-CASE-LAR-13823-1] c 35 N93-29084

System for improving measurement accuracy of transducer by measuring transducer temperature and resistance change using thermoelectric voltages
[NASA-CASE-ARC-12014-1] c 35 N94-29361

ELECTRICAL PROPERTIES

Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687

Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001

Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053

Radiometric temperature reference Patent
[NASA-CASE-MSC-13276-1] c 14 N71-27058

Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044

Storage battery comprising negative plates of a wedge shaped configuration — for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693

Thermocouple tape — developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434

Modification of the electrical and optical properties of polymers — ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437

Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121

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Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497

RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388

Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650

Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375

Four-terminal electrical testing device — initiator bridgeway resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555

A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N90-19492

System for improving measurement accuracy of transducer by measuring transducer temperature and resistance change using thermoelectric voltages
[NASA-CASE-ARC-12014-1] c 35 N94-29361

ELECTRICAL RESISTIVITY

GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064

Thermopile vacuum gate tube simulator Patent
[NASA-CASE-XLA-02758] c 14 N71-18481

Electrically conductive fluorocarbon polymer
[NASA-CASE-XLE-06774-2] c 06 N72-25150

Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339

Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164

Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315

Lightweight electrically-powered flexible thermal laminate — made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331

Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156

Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396

Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709

Method and device for detection of a substance — determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954

Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796

- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71-NPO-15494-2] c 35 N85-34373
- Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
- Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
- High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415
- Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668
- Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N92-10090
- Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121
- High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N93-14704
- Method for producing hybrid graphite composite
[NASA-CASE-LEW-15241-2] c 24 N93-31296
- Non-volatile, solid state bistable electrical switch
[NASA-CASE-NPO-17621-1-CU] c 33 N94-23820
- ELECTRICITY**
- Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599
- Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875
- Selective emitters
[NASA-CASE-LEW-14731-1] c 44 N92-22037
- ELECTRO-OPTICS**
- Electro-optical scanning apparatus Patent Application
[NASA-CASE-NPO-11106] c 14 N70-34697
- Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
- Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101
- Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
- Ultrastable calibrated light source
[NASA-CASE-MS-12293-1] c 14 N72-27411
- Optical conversion method — for spacecraft television
[NASA-CASE-MS-12618-1] c 74 N78-17865
- Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
- Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
- Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
- Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874
- Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356
- Electro-optic resonant phase modulator
[NASA-CASE-NPO-18702-1-CU] c 74 N92-23551
- Full complex modulation using two one-parameter spatial light modulators
[NASA-CASE-MS-22255-1] c 74 N93-28135
- Reconfigurable optical interconnections via dynamic computer-generated holograms
[NASA-CASE-NPO-19039-1-CU] c 74 N94-29491
- ELECTROACOUSTIC TRANSDUCERS**
- Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329
- Material suspension within an acoustically excited resonant chamber — at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
- CDS solid state phase insensitive ultrasonic transducer — annealing cadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
- Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808
- Absolute calibration technique for broadband ultrasonic transducers
[NASA-CASE-LAR-14672-1] c 35 N94-35368
- ELECTROACOUSTIC WAVES**
- Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
- ELECTROCARDIOGRAPHY**
- Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
- Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
- Insulated electrocardiographic electrodes — without paste electrolyte
[NASA-CASE-MS-14339-1] c 05 N75-24716
- Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081
- Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
- ELECTROCATALYSTS**
- Electrocatalyst for oxygen reduction
[NASA-CASE-MQN-10537-1] c 06 N72-10138
- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
- Zirconium carbide as an electrocatalyst for the chromous-chromic redox couple
[NASA-CASE-LEW-13246-1] c 44 N83-27344
- ELECTROCHEMICAL CELLS**
- Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363
- Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
- Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
- Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
- Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336
- Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
- Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
- Porus electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108
- Battery testing device — for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519
- Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
- Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
- Method and device for the detection of phenol and related compounds — in an electrochemical cell
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- Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474
- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
- Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
- Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923
- Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
- Alkali metal carbon dioxide electrochemical system for energy storage and/or conversion of carbon dioxide to oxygen
[NASA-CASE-LEW-14973-1] c 44 N93-28974
- Anode for rechargeable ambient temperature lithium cells
[NASA-CASE-NPO-18580-1-CU] c 33 N94-29505
- ELECTROCHEMICAL MACHINING**
- Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395
- ELECTROCHEMICAL OXIDATION**
- Method and device for the detection of phenol and related compounds — in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235
- Epitaxial thinning process
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- Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
- Electrochemical detection device — for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
- Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N91-27478
- ELECTRODE FILM BARRIERS**
- Formulated plastic separators for soluble electrode cells — rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
- ELECTRODE MATERIALS**
- Overcharge and overdischarge protection of ambient temperature secondary lithium cells
[NASA-CASE-NPO-18343-1-CU] c 33 N94-23823
- ELECTRODEPOSITION**
- Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043
- Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466
- Electrophoretic sample insertion — device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948
- Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
- Method and device for the detection of phenol and related compounds — in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235
- ELECTRODES**
- Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
- Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
- Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
- Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666
- Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
- Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
- Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
- Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
- Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
- Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
- Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
- Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
- Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
- Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093
- Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618
- Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
- Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
- Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
- Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MS-90153-2] c 05 N72-25120
- Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121
- Compressible biomedical electrode
[NASA-CASE-MS-13648] c 05 N72-27103
- Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246
- Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688
- Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
- Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150
- Porus electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108
- High powered arc electrodes — producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
- Method of making porous conductive supports for electrodes — by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
- Insulated electrocardiographic electrodes — without paste electrolyte
[NASA-CASE-MS-14339-1] c 05 N75-24716
- Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
- Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
- Snap-in compressible biomedical electrode
[NASA-CASE-MS-14623-1] c 52 N77-28717
- Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395
- Toroidal cell and battery — storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521
- Catalyst surfaces for the chromous/chromic redox couple
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- Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
- Multistage depressed collector for dual mode operation — for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
- Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
- Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175
- Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
- Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
- Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
- Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
- Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
- Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
- Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
- Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] c 35 N86-25753
- Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431
- Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
- Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282
- Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168
- Substantially oxygen-free contact tube
[NASA-CASE-LAR-14169-1] c 37 N92-17677
- Method for producing edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-2-CU] c 76 N92-22040
- High temperature solder device for flat cables
[NASA-CASE-GSC-13344-1] c 26 N92-29094
- Arc/gas electrode
[NASA-CASE-MFS-29766-1] c 33 N92-33030
- Enhanced fatigue and retention in ferroelectric thin film memory capacitors by post-top electrode anneal treatment
[NASA-CASE-NPO-18551-1-CU] c 33 N93-17277
- Cellulose triacetate, thin film dielectric capacitor
[NASA-CASE-NPO-18935-1-CU] c 33 N94-15952
- ELECTRODIALYSIS**
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
- ELECTROFORMING**
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919
- ELECTROHYDRAULIC FORMING**
Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249
- ELECTROHYDRODYNAMICS**
Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332
- ELECTROKINETICS**
Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226
- ELECTROLUMINESCENCE**
Flat-panel, full-color, electroluminescent display
[NASA-CASE-LAR-13407-1] c 33 N87-28831
- Enhanced single layer multi-color or luminescent display with coactivators
[NASA-CASE-LAR-14181-1] c 76 N91-21911
- Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950
- Single layer multi-color luminescent display and method of making
[NASA-CASE-LAR-13616-3] c 74 N92-29158
- ELECTROLYSIS**
Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
- Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
- Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
- Static feed water electrolysis subsystem development
[NASA-CASE-MSC-21577-1-SB] c 25 N91-23271
- Water electrolysis
[NASA-CASE-MSC-21572-1-SB] c 25 N92-28756
- Method for producing oxygen from lunar materials
[NASA-CASE-MSC-21759-1] c 25 N93-29617

ELECTROLYTES

- Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363
- Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
- Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336
- Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103
- Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710
- Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
- Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
- Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N92-16457
- Secondary Li battery incorporating 12-Crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N92-28753

ELECTROLYTIC CELLS

- Method of making emf cell
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- Electrolytic gas operated actuator
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Solar energy collection system
[NASA-CASE-NPO-13810-1] c 44 N77-32582

Method for producing solar energy panels by automation
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Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526

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[NASA-CASE-NPO-13904-1] c 25 N79-11152

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Solar cell module assembly jig
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Solar energy collection system
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Solar concentrator
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Pulse thermal energy transport/storage system
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Multi-heat addition turbine engine
[NASA-CASE-LEW-15094-1] c 07 N93-22034

ENGINE ANALYZERS

Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345

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Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030

Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930

Power control for hot gas engines
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Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115

Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681

ENGINE COOLANTS

Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535

Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710

ENGINE DESIGN

Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330

Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081

Space vehicle system
[NASA-CASE-MSC-12561-1] c 18 N76-17185

Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179

Hydrogen-fueled engine
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Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039

Free-piston regenerative hot gas hydraulic engine
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Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432

Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370

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System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518

Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999

ENGINE INLETS

Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270

The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154

Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976

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ENGINE MONITORING INSTRUMENTS

- System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466

ENGINE NOISE

- Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Multiple pure tone elimination strut assembly — air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
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[NASA-CASE-ARC-10812-1] c 07 N83-33884

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- Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
Gas path seal
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[NASA-CASE-LEW-13343-1] c 27 N82-28441
Thermal stress minimized, two component, turbine shroud seal
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[NASA-CASE-LAR-13435-1] c 37 N88-23981
High-temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N91-27560

ENGINE STARTERS

- Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599

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- Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844

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- High-temperature, high-pressure spherical segment valve Patent
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[NASA-CASE-FRC-10063] c 01 N71-12217
Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389
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- Electrostatically suspended rotor for angular encoder
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- Water separator
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- Apparatus and process for microbial detection and enumeration
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- Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
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[NASA-CASE-ARC-10153] c 05 N71-28619
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[NASA-CASE-MSC-21752-1] c 54 N94-20194

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- Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964

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- Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
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Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
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- Dual stage check valve
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- Thermal control wall panel Patent
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- System for real-time crustal deformation monitoring
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- Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
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- Sequencing device utilizing planetary gear set
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[NASA-CASE-NPO-15786-1] c 76 N84-35112
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[NASA-CASE-NPO-18836-1-CU] c 76 N94-17327
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[NASA-CASE-LEW-15223-1] c 76 N94-20381
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[NASA-CASE-NPO-18483-1-CU] c 76 N94-29501

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- Synthesis of siloxane-containing epoxy polymers Patent
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[NASA-CASE-MFS-13994-2] c 06 N72-25148
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[NASA-CASE-ARC-11104-1] c 15 N79-26100
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- Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Hydroforming techniques using epoxy molds Patent
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- Epoxy-aziridine polymer product Patent
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[NASA-CASE-ARC-10813-1] c 27 N76-16230
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[NASA-CASE-GSC-12686-1] c 27 N83-34039
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Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
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Optical communications system Patent
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Rocket thrust throttling system
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Anti-buckling fatigue test assembly — for subjecting metal specimen to tensile and compressive loads at constant temperature
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Apparatus for conducting flow electrophoresis in the substantial absence of gravity
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- Thermocouple tape — developed from thermoelectrically different metals
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- Field effect transistor and method of construction thereof
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- Remotely controlled spray gun
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- Improved method and apparatus for waste collection and storage
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- Instrument for measuring potentials on two dimensional electric field plots Patent
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- Tilting table for ergometer and for other biomedical devices
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- Foot pedal operated fluid type exercising device
[NASA-CASE-MSC-11561-1] c 05 N73-32014
- Ergometer calibrator — for any ergometer utilizing rotating shaft
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- Thermal shock and erosion resistant tantalum carbide ceramic material
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- Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
- Reed-Solomon decoder
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- Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
- Local area network with fault-checking, priorities, and redundant backup
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- VLSI architecture for a Reed-Solomon decoder
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- Mappings between codewords of two distinct (N,K) Reed-Solomon codes over GF(2 sup J)
[NASA-CASE-NPO-18771-1-CU] c 61 N93-11664

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- Automatic fault correction system for parallel signal channels Patent
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- Elimination of frequency shift in a multiplex communication system Patent
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- Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
- Failure detection and control means for improved drift performance of a gimbaled platform system
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- Local area network with fault-checking, priorities, and redundant backup
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- Hidden Markov models for fault detection in dynamic systems
[NASA-CASE-NPO-18982-1-CU] c 38 N93-30413

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- Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
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[NASA-CASE-GSC-10554-1] c 08 N71-29033
- Bit error rate measurement above and below bit rate tracking threshold
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- Automated weld torch guidance control system
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- Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
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- Aerial capsule emergency separation device Patent
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[NASA-CASE-MFS-21040-1] c 06 N73-30098
- Vinyl capped addition polyimides
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- Addition polyimides with enhanced processability
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- Selective formation of porous silicon
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- Method for etching copper Patent
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- Etching of aluminum for bonding Patent
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- Scanning nozzle plating system — for etching or plating metals on substrates without masking
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Flow rate switch
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Flow modifying device
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Pressure measuring probe
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Flow compensating pressure regulator
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[NASA-CASE-ARC-10106-1] c 28 N72-22769

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[NASA-CASE-XAC-04886-1] c 14 N71-20439

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Subminiature insertable force transducer — including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329

Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884

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[NASA-CASE-XLE-00023] c 15 N70-33330

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Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579

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[NASA-CASE-XMF-03793] c 15 N71-24833

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[NASA-CASE-XLE-08917-2] c 15 N71-24836

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[NASA-CASE-NPO-11036] c 15 N72-24522

Method of heat treating a formed powder product material
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[NASA-CASE-LAR-10489-2] c 31 N74-32920

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[NASA-CASE-LEW-11694-2] c 37 N76-14461

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[NASA-CASE-MSC-19693-1] c 26 N78-24333

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Spillage detector for liquid chromatography systems
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[NASA-CASE-LAR-12065-2] c 24 N81-33235

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[NASA-CASE-GSC-12321-1] c 36 N82-16396

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- Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-2-CU] c 61 N93-14882
- Wide angle, single screen, gridded square-loop frequency selective surface for duplexing two closely separated frequency bands
[NASA-CASE-NPO-18664-1-CU] c 89 N94-17438
- ### FREQUENCY ANALYZERS
- Digital frequency discriminator Patent
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- Variable frequency magnetic multivibrator Patent
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- Variable frequency magnetic multivibrator Patent
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- Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
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- Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841
- Low loss dichroic plate
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- Automatic frequency control for FM transmitter
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- Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
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- Cam-operated pitch-change apparatus
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- High stability buffered phase comparator
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- Automatic oscillator frequency control system
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- Burst-by-burst laser frequency monitor
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- Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
- Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
- Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
- Variable frequency inverter for ac induction motors with torque, speed and braking control
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- Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
- Acoustic emission frequency discrimination
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- Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
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- Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
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- Method and apparatus for frequency spectrum analysis
[NASA-CASE-NPO-17759-1-CU] c 32 N92-29124

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- Low phase noise digital frequency divider
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- Technique for extending the frequency range of digital dividers
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[NASA-CASE-GSC-10118-1] c 07 N71-24621
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[NASA-CASE-KSC-10521] c 07 N73-20176
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- Time domain phase measuring apparatus
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- Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692
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[NASA-CASE-XMF-04958-1] c 10 N71-26414
- Open loop digital frequency multiplier
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- Elimination of frequency shift in a multiplex communication system Patent
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- Laser fluid velocity detector Patent
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- Laser Doppler velocity simulator — to induce frequency shift
[NASA-CASE-LAR-12176-1] c 36 N80-16321
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Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904

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[NASA-CASE-XMS-01625] c 15 N71-23022

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[NASA-CASE-XMS-02063] c 03 N71-29044

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[NASA-CASE-MSC-12568-1] c 24 N76-14204

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[NASA-CASE-LEW-12590-1] c 37 N84-22958

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Method for providing real-time control of a gaseous propellant rocket propulsion system
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[NASA-CASE-XMF-00185] c 21 N70-34539

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[NASA-CASE-LAR-10317-1] c 32 N71-16103

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[NASA-CASE-XLA-04605] c 32 N71-16106

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Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199

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Injector for use in high voltage isolators for liquid feed lines
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[NASA-CASE-MFS-25989-1] c 20 N87-14420

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[NASA-CASE-LEW-14846-1] c 20 N92-10054

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[NASA-CASE-XLA-04605] c 32 N71-16106

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[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

INDIUM ARSENIDES

InP solar cell with window layer

[NASA-CASE-LEW-15606-1] c 44 N94-35230

INDIUM COMPOUNDS

Liquid crystal light valve structures

[NASA-CASE-MSC-20036-1] c 76 N85-33826

Monolithic in-based Ii-V compound semiconductor focal plane array cell with single stage CCD output

[NASA-CASE-NPO-18978-1-CU] c 33 N94-29488

INDUCED DRAG

Minimum induced drag airfoil body Patent

[NASA-CASE-XLA-00755] c 01 N71-13410

Minimum induced drag airfoil body Patent

[NASA-CASE-XLA-05828] c 01 N71-13411

INDUCTANCE

Current dependent filter inductance

[NASA-CASE-ERC-10139] c 09 N72-17154

Inductance device with vacuum insulation

[NASA-CASE-LEW-10330-1] c 09 N72-27226

Direct reading inductance meter

[NASA-CASE-NPO-13792-1] c 35 N77-32455

Feedback DC-to-DC converter

[NASA-CASE-GSC-13404-1] c 33 N94-15874

INDUCTION

Induction-type metal detector with increased scanning area capability

[NASA-CASE-KSC-11386-1] c 35 N90-22023

INDUCTION HEATING

Induction furnace with perforated tungsten foil shielding

Patent

[NASA-CASE-XLE-04026] c 14 N71-23267

Apparatus for use in the production of ribbon-shaped crystals from a silicon melt

[NASA-CASE-NPO-14297-1] c 33 N81-18389

One-step dual purpose joining technique

[NASA-CASE-LAR-12595-1] c 33 N82-26571

Induction heating gun

[NASA-CASE-LAR-13181-1] c 31 N85-29083

Flexible heating head for induction heating apparatus and method

[NASA-CASE-LAR-14679-2] c 32 N92-31150

Flexible heating head for induction heating

[NASA-CASE-LAR-14418-15-B] c 32 N94-20368

INDUCTION MOTORS

Induction motor control system with voltage controlled oscillator circuit

[NASA-CASE-MFS-21465-1] c 10 N73-32145

Variable frequency inverter for ac induction motors with torque, speed and braking control

[NASA-CASE-MFS-22088-1] c 33 N75-15874

Power factor control system for AC induction motors

[NASA-CASE-MFS-23280-1] c 33 N78-10376

Three phase power factor controller

[NASA-CASE-MFS-25535-1] c 33 N81-12330

Power factor control system for ac induction motors

[NASA-CASE-MFS-23988-1] c 33 N81-27395

Motor power factor controller with a reduced voltage starter

[NASA-CASE-MFS-25586-1] c 33 N82-11360

Magnetic field control — electromechanical torquing device

[NASA-CASE-MFS-23828-1] c 33 N82-26569

Electrical power generating system

[NASA-CASE-MFS-25302-1] c 33 N83-28319

Triac failure detector

[NASA-CASE-MFS-25607-1] c 33 N83-34190

Control system for an induction motor with energy recovery

[NASA-CASE-MFS-25477-1] c 33 N84-14424

Three phase power factor controller

[NASA-CASE-MFS-25535-2] c 33 N84-22885

Motor power control circuit for ac induction motors

[NASA-CASE-MFS-25323-1] c 33 N84-22886

Coupling an induction motor type generator to ac power lines — making windmill generators compatible with public power lines

[NASA-CASE-MFS-25302-2] c 33 N84-33660

Three-phase power factor controller with induced EMF sensing

[NASA-CASE-MFS-25852-1] c 33 N84-33661

Solar powered actuator with continuously variable auxiliary power control

[NASA-CASE-MFS-25637-1] c 44 N85-21769

Power control for ac motor

[NASA-CASE-MFS-25861-1] c 33 N85-22877

INDUCTORS

Inductive liquid level detection system Patent

[NASA-CASE-XLE-01609] c 14 N71-10500

Vacuum deposition apparatus Patent

[NASA-CASE-XMF-01667] c 15 N71-17647

Constant frequency output two stage induction machine systems Patent

[NASA-CASE-ERC-10065] c 09 N71-27364

Elimination of current spikes in buck power converters

[NASA-CASE-NPO-14505-1] c 33 N81-19393

Improved high power/high frequency inductor

[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539

Feedback DC-to-DC converter

[NASA-CASE-GSC-13404-1] c 33 N94-15874

INDUSTRIAL PLANTS

Process for making diamonds

[NASA-CASE-MFS-20698-2] c 15 N73-19457

INDUSTRIAL WASTES

Process of forming catalytic surfaces for wet oxidation reactions

[NASA-CASE-MSC-14831-1] c 25 N78-10225

Process for purification of waste water produced by a Kraft process pulp and paper mill

[NASA-CASE-NPO-13847-2] c 85 N79-17747

Hazardous materials emergency response mobile robot

[NASA-CASE-NPO-18690-1-CU] c 37 N92-34205

INERT ATMOSPHERE

Method for retarding dye fading during archival storage of developed color photographic film — inert atmosphere

[NASA-CASE-MFS-23250-1] c 35 N82-11432

INERTIA

Bidirectional step torque filter with zero backlash characteristic Patent

[NASA-CASE-XGS-04227] c 15 N71-21744

INERTIAL CONFINEMENT FUSION

Method and apparatus for producing gas-filled hollow spheres — target pellets for inertial confinement fusion

[NASA-CASE-NPO-14596-3] c 31 N83-31896

Contactless pellet fabrication

[NASA-CASE-NPO-15592-1] c 71 N84-16940

INERTIAL GUIDANCE

Hermetic sealed vibration damper Patent

[NASA-CASE-MSC-10959] c 15 N71-26243

INERTIAL NAVIGATION

Autonomous navigation system — gyroscopic pendulum for air navigation

[NASA-CASE-ARC-11257-1] c 04 N81-21047

Assured crew return vehicle

[NASA-CASE-MSC-21536-1] c 18 N92-21999

INERTIAL PLATFORMS

Clamping assembly for inertial components Patent

[NASA-CASE-XMS-02184] c 15 N71-20813

Azimuth laying system Patent

[NASA-CASE-XMF-01669] c 21 N71-23289

Temperature compensated digital inertial sensor — circuit for maintaining inertial element of gyroscope or accelerometer at constant position

[NASA-CASE-NPO-13044-1] c 35 N74-15094

Attitude control system

[NASA-CASE-MFS-22787-1] c 15 N77-10113

Rim inertial measuring system

[NASA-CASE-LAR-12052-1] c 18 N81-29152

INERTIAL REFERENCE SYSTEMS

Attitude control system Patent

[NASA-CASE-XGS-04393] c 21 N71-14159

Inertial reference apparatus Patent

[NASA-CASE-XAC-03107] c 23 N71-16098

INFLATABLE SPACECRAFT

Thermal control of space vehicles Patent

[NASA-CASE-XLA-01291] c 33 N70-36617

Passive communication satellite Patent

[NASA-CASE-XLA-00210] c 30 N70-40309

Rotating mandrel for assembly of inflatable devices Patent

[NASA-CASE-XLA-04143] c 15 N71-17687

Method of making an inflatable panel Patent

[NASA-CASE-XLA-03497] c 15 N71-23052

Orbital escape device Patent

[NASA-CASE-XMS-06162] c 31 N71-28851

INFLATABLE STRUCTURES

Aeroflexible structures

[NASA-CASE-XLA-06095] c 01 N69-39981

Life raft Patent

[NASA-CASE-XMS-00863] c 05 N70-34857

Life preserver Patent

[NASA-CASE-XMS-00864] c 05 N70-36493

Inflatable honeycomb Patent

[NASA-CASE-XLA-00204] c 32 N70-36536

Inflatable radar reflector unit Patent

[NASA-CASE-XMS-00893] c 07 N70-40063

Excessive temperature warning system Patent

[NASA-CASE-XLA-01926] c 14 N71-15620

Inflation system for balloon type satellites Patent

[NASA-CASE-XGS-03351] c 31 N71-16081

Aerodynamic protection for space flight vehicles Patent

[NASA-CASE-XNP-02507] c 31 N71-17679

Self supporting space vehicle Patent

[NASA-CASE-XLA-00117] c 31 N71-17680

Conforming polisher for aspheric surface of revolution Patent

[NASA-CASE-XGS-02884] c 15 N71-22705

Method of making inflatable honeycomb Patent

[NASA-CASE-XLA-03492] c 15 N71-22713

Collapsible antenna boom and transmission line Patent

[NASA-CASE-MFS-20068] c 07 N71-27191

Inflatable tether Patent

[NASA-CASE-XMS-10993] c 15 N71-28936

Inflatable transpiration cooled nozzle

[NASA-CASE-MFS-20619] c 28 N72-11708

Modification of one man life raft

[NASA-CASE-LAR-10241-1] c 54 N74-14845

Emergency space-suit helmet

[NASA-CASE-MSC-10954-1] c 54 N78-18761

Pressure control valve — inflating flexible bladders

[NASA-CASE-ARC-11251-1] c 37 N81-17433

Pneumatic inflatable end effector

[NASA-CASE-MFS-23696-1] c 54 N81-26718

Inflatable device for installing strain gage bridges

[NASA-CASE-FRC-11068-1] c 35 N84-12443

Ballast system for maintaining constant pressure in a glove box

[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

Inflatable rescue device

[NASA-CASE-MSC-22244-1] c 54 N94-15883

Tetrahedral lander

[NASA-CASE-MSC-22082-1] c 18 N94-20590

INFORMATION

Method and apparatus for filtering visual documents

[NASA-CASE-MSC-22093-1] c 82 N93-22017

INFORMATION FLOW

Hidden Markov models for fault detection in dynamic systems

[NASA-CASE-NPO-18982-1-CU] c 38 N93-30413

INFORMATION RETRIEVAL

Multiple hologram recording and readout system Patent

[NASA-CASE-ERC-10151] c 16 N71-29131

Dynamic pattern matcher using incomplete data

[NASA-CASE-MSC-21415-1-SB] c 61 N93-18858

INFORMATION SYSTEMS

Dynamic pattern matcher using incomplete data

[NASA-CASE-MSC-21415-1-SB] c 61 N93-18858

INFORMATION THEORY

Dynamic pattern matcher using incomplete data

[NASA-CASE-MSC-21415-1-SB] c 61 N93-18858

INFRARED DETECTORS

Temperature sensitive capacitor device

[NASA-CASE-XNP-09750] c 14 N69

SUBJECT INDEX

Broadband optical radiation detector.
[US-PATENT-4,262,198] c 74 N83-19597

Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590

Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271

Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588

Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N91-21434

INAS hole-immobilized doping superlattice
[NASA-CASE-NPO-17880-1-CU] c 76 N93-11056

Long wavelength infrared detector
[NASA-CASE-NPO-17543-2-CU] c 35 N93-19387

INFRARED IMAGERY
Off-surface infrared flow visualization
[NASA-CASE-LAR-14568-1] c 74 N93-22037

INFRARED INSTRUMENTS
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181

Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

INFRARED INTERFEROMETERS
Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395

INFRARED LASERS
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284

Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942

Thermal compensator for closed-cycle helium refrigerator — assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029

INFRARED PHOTOMETRY
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836

Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118

INFRARED RADIATION
High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147

High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088

Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127

Lunar radiator shade
[NASA-CASE-MSC-21868-1] c 54 N92-21589

Off-surface infrared flow visualization
[NASA-CASE-LAR-14568-1] c 74 N93-22037

INFRARED REFLECTION
Electromagnetic radiation energy arrangement — coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186

INFRARED SCANNERS
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181

Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475

INFRARED SPECTRA
Diatomic infrared gasdynamic laser — for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048

INFRARED SPECTROMETERS
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699

Cooled echelle grating spectrometer — for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635

INFRARED SPECTROSCOPY
Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348

INFRARED TELESCOPES
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125

INFRASONIC FREQUENCIES
Resonant infrasonic gauging apparatus
[NASA-CASE-MSC-11847-1] c 14 N72-11363

INHIBITORS
Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

INITIATORS (EXPLOSIVES)

Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930

Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599

Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231

Four-terminal electrical testing device — initiator bridgewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555

INJECTION
Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005

High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

INJECTION LASERS
Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305

INJECTORS
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241

Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199

Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710

Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213

Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654

Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736

Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809

Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455

Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406

Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125

Method of injecting fluid propellants into a rocket combustion chamber
[NASA-CASE-LEW-14846-2] c 20 N91-26200

Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N92-10054

Liquid fuel injection elements for rocket engines
[NASA-CASE-MFS-28547-1] c 20 N94-20370

Apparatus for testing high pressure injector elements
[NASA-CASE-MFS-28773-1] c 37 N94-29365

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Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930

INLET FLOW
High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908

Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915

Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646

Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270

Shock position sensor for supersonic inlets — measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431

Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455

Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089

Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976

Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N93-25996

Gas storage and recovery system
[NASA-CASE-MSC-22091-1] c 31 N93-28136

INLET NOZZLES
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125

Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N93-25996

INLET PRESSURE
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466

Shock position sensor for supersonic inlets — measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431

INOCULATION
Automatic inoculating apparatus — includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502

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INORGANIC COATINGS

Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128

Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233

INORGANIC COMPOUNDS
Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337

Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403

Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739

Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566

Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530

Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910

INORGANIC PEROXIDES
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229

Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162

INPUT
Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806

Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172

High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814

INPUT/OUTPUT ROUTINES
Analog to digital converter
[NASA-CASE-NPO-13385-1] c 33 N76-18345

INSECTS
Recombinant protein production and insect cell culture and process
[NASA-CASE-MSC-22336-1] c 51 N94-36751

INSERTION
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836

INSERTION LOSS
Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057

INSERTS
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736

Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842

Blind fastening apparatus
[NASA-CASE-LAR-14542-1] c 37 N93-22384

INSPECTION
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396

Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330

Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698

Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756

Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562

INSTALLING
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296

Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409

A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387

Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443

System for the installation and replacement of components in hostile environments
[NASA-CASE-LEW-14906-1-SB] c 37 N94-29427

INSTRUMENT COMPENSATION
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138

INSTRUMENT ERRORS
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239

INSTRUMENT FLIGHT RULES
Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748

INSTRUMENT ORIENTATION
Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736

INSTRUMENT PACKAGES

- Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
Solar energy powered heliostrop
[NASA-CASE-GSC-10945-1] c 21 N72-31637

INSTRUMENT PACKAGES

- Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523

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- Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752
Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
Scientific experiment flexible mount
[NASA-CASE-MS-12372-1] c 31 N72-25842
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[NASA-CASE-LAR-11889-2] c 37 N78-27424
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[NASA-CASE-ARC-10881-1] c 37 N78-27425

INSULATED STRUCTURES

- Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935

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- Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444
Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
Insulated electrocardiographic electrodes — without paste electrolyte
[NASA-CASE-MS-14339-1] c 05 N75-24716
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
Two-component ceramic coating for silica insulation
[NASA-CASE-MS-14270-1] c 27 N76-22377
Three-component ceramic coating for silica insulation
[NASA-CASE-MS-14270-2] c 27 N76-23426
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741
Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480
Toughened uni-piece fibrous insulation
[NASA-CASE-ARC-11888-1] c 24 N92-16026
Sprayable lightweight ablative coating
[NASA-CASE-MFS-28372-1] c 27 N92-16123
Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197

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- Electrostatic thrustor with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
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Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276

Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234

Three-grid accelerator system for an ion propulsion engine
[NASA-CASE-NPO-18391-1-CU] c 20 N93-28424

Carbon-carbon grid for ion engines
[NASA-CASE-NPO-19174-1-CU] c 20 N94-15876

Segmented ion thruster
[NASA-CASE-NPO-18192-1-CU] c 20 N94-20496

ION EXCHANGE MEMBRANE ELECTROLYTES
Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337

Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044

Formulated plastic separators for soluble electrode cells — rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313

Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187

Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268

Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

ION EXCHANGE RESINS
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530

Dialysis system — using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687

Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076

Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1-SB] c 51 N93-18351

ION EXCHANGING
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076

Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244

Ion exchange polymers and method for making
[NASA-CASE-LEW-15576-1] c 27 N93-31316

ION EXTRACTION
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148

Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959

Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253

ION IMPLANTATION
Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360

A method of making a single layer multi-color luminescent display
[NASA-CASE-LAR-14811-1] c 33 N93-20119

ION IRRADIATION
Modification of the electrical and optical properties of polymers — ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437

Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179

ION MOTION
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016

ION PLATING
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524

Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695

ION PROBES
Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863

ION PROPULSION
Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802

Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245

Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980

Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197

Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922

Electron bombardment ion engine Patent
[NASA-CASE-NPO-04124] c 28 N71-21822

Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173

Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642

Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709

Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770

Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771

Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310

Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461

Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162

Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179

A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453

Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256

Three-grid accelerator system for an ion propulsion engine
[NASA-CASE-NPO-18391-1-CU] c 20 N93-28424

Segmented ion thruster
[NASA-CASE-NPO-18192-1-CU] c 20 N94-20496

ION PUMPS
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406

ION SOURCES
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618

Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046

Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642

High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850

Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464

Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269

Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684

Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163

Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186

Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813

ION TRAPS (INSTRUMENTATION)
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994

IONIC MOBILITY
Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710

IONIZATION
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253

Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358

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IONIZATION CHAMBERS

- Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
- Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
- A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090
- Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
- Segmented ion thruster
[NASA-CASE-NPO-18192-1-CU] c 20 N94-20496

IONIZATION CROSS SECTIONS

- Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169

IONIZATION GAGES

- Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666
- Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
- Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
- Ultrahigh vacuum measuring ionization gauge
[NASA-CASE-XLA-05087] c 14 N73-30391

IONIZATION POTENTIALS

- Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
- Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

IONIZED GASES

- Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
- Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
- Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
- Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491
- Arc/gas electrode
[NASA-CASE-MFS-29766-1] c 33 N92-33030

IONIZERS

- Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
- Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
- Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
- Electron reversal ionizer for detection of trace species using a spherical cathode
[NASA-CASE-NPO-18870-1-CU] c 72 N94-17329

IONIZING RADIATION

- High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
- Reinforced polyquinoxaline gasket and method of preparing the same — resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
- Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N90-21198

IONOSPHERIC DISTURBANCES

- Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

IONOSPHERIC ELECTRON DENSITY

- Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

IONOSPHERIC SOUNDING

- Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

IONS

- Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477

IRIDIUM

- Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346

IRISES (MECHANICAL APERTURES)

- Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
- Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172

IRON

- Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

IRON ALLOYS

- Tantalum modified ferritic iron base alloys
[NASA-CASE-LEW-12095-1] c 26 N78-18182
- Process for making a high toughness-high strength iron alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271
- High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
- Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233

IRON CHLORIDES

- Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

IRON COMPOUNDS

- Coal desulfurization — using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246

IRRADIATION

- Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269
- Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
- Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
- Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
- Vitro-violet process for producing flame resistant polyamides and products produced thereby — protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
- Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
- Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N92-33015
- Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N94-20372

IRRIGATION

- Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701

ISOLATION

- High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146
- Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

ISOLATORS

- Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
- Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
- Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
- Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304
- Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N91-21541
- Active thermal isolation for temperature responsive sensors
[NASA-CASE-LAR-14612-1] c 34 N94-35074

ISOPROPYL ALCOHOL

- Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102

ISOPROPYL COMPOUNDS

- Polyimides containing amide and perfluoroisopropylidene connecting groups
[NASA-CASE-LAR-14608-1] c 27 N94-20374

ISOTHERMAL LAYERS

- Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353

ISOTHERMAL PROCESSES

- Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366

ISOTOPE SEPARATION

- Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
- Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732

ITERATION

- Neural network training by integration of adjoint systems of equations forward in time
[NASA-CASE-NPO-18586-1-CU] c 63 N93-17276

JACOBI MATRIX METHOD

- Configuration control of seven-degree-of-freedom arms
[NASA-CASE-NPO-18607-1-CU] c 37 N92-23553

JET AIRCRAFT

- Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
- Multiple pure tone elimination strut assembly — air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800

JET AIRCRAFT NOISE

- Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
- Noise suppressor — for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
- Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218
- Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
- Cascade plug nozzle — for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
- Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
- Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873
- Jet mixer noise suppressor using acoustic feedback
[NASA-CASE-LEW-15170-1] c 71 N93-28953

JET AMPLIFIERS

- Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
- Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741

JET BLAST EFFECTS

- Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874

JET CONTROL

- Altitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938

JET ENGINES

- Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563
- Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429
- Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
- Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
- Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
- Cascade plug nozzle — for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
- The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
- Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544
- Electrical servo actuator bracket — fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
- Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749

JET EXHAUST

- Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490
- Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
- Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298

JET FLAPS

- Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332

JET FLOW

- Two phase flow system with discrete impinging two-phase jets
[NASA-CASE-NPO-11556] c 12 N72-25292
- System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254

JET MIXING FLOW

- Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199

JET NOZZLES

- Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
- Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
- Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093

JET PROPULSION

- Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121
- JET PUMPS**
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
- JET THRUST**
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466
- JETTISON SYSTEMS**
Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675
Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992
- JIGS**
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
- JOINING**
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096
- JOINTS (ANATOMY)**
Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
Orthotic arm joint — for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c 54 N77-30749
Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651
Automatic locking orthotic knee device
[NASA-CASE-MFS-28633-1] c 54 N94-20493
Selectively lockable knee brace
[NASA-CASE-MFS-28991-1] c 54 N94-36838
Channel in hip implant stem
[NASA-CASE-MFS-28987-1] c 54 N94-36840
- JOINTS (JUNCTIONS)**
Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344
Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
Frictionless universal joint Patent
[NASA-CASE-NPO-10646] c 15 N71-28467
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951
Diffusion welding in air — solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c 37 N74-18128
Bonded joint and method — for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326
Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
Method of determining bond quality of power transistors attached to substrates — X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676

- Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735
Thermal barrier pressure seal — shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619
Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620
Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507
Foldable self-erecting joint
[NASA-CASE-MSC-20635-1] c 18 N87-14373
Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967
Method of inserting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197
Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614
Multi-fingered robotic hand
[NASA-CASE-NPO-15959-2] c 37 N91-14616
Compliant joint
[NASA-CASE-GSC-13153-1] c 37 N91-17387
Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-17388
Apparatus for joining trusses
[NASA-CASE-MFS-28545-1] c 31 N91-25306
Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N92-21727
Double-V block fingers with cruciform recess
[NASA-CASE-GSC-13356-1] c 37 N92-24243
Method and apparatus for preloading a joint by remotely operable means
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[NASA-CASE-ARC-10898-1] c 35 N77-18417
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[NASA-CASE-XMF-01371] c 15 N70-41829
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Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998
Linear magnetic brake with two windings Patent
[NASA-CASE-XLE-05079] c 15 N71-17652
Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539

MAGNETIC CONTROL

Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
Magnetic bearing system
[NASA-CASE-GSC-11978-1] c 37 N77-17464
Low temperature latching solenoid
[NASA-CASE-MS-18106-1] c 33 N82-11357
Cryogenic shutter
[NASA-CASE-GSC-13189-2] c 37 N92-29151
Magnetically operated check valve
[NASA-CASE-MS-22046-1] c 37 N94-35661

MAGNETIC CORES

Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925
Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
Banded transformer cores
[NASA-CASE-NPO-11966-1] c 33 N74-17928
Electromagnetic attachment mechanism
[NASA-CASE-MS-21463-1] c 37 N92-33018

MAGNETIC DIPOLES

Balance torque meter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725

MAGNETIC DISKS

Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819

MAGNETIC FIELD CONFIGURATIONS

Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905

MAGNETIC FIELDS

Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043
Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099

Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529

Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187

Balance torque meter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725

Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325

Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554

Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619

Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770

Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771

Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175

Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710

Electron beam controller — using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195

Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390

Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315

Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335

Atomic hydrogen storage — cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402

Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

Magnetic field control — electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569

Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132

Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404

Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082

Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

Magnetic drive coupling
[NASA-CASE-MS-21171-1] c 37 N88-23973

Magnetic attachment mechanism
[NASA-CASE-MS-21095-1] c 37 N89-12866

Electromagnetic Meissner effect launcher
[NASA-CASE-MFS-28323-1] c 14 N92-15081

Precision measurement of magnetic characteristics of an article with nullification of external magnetic fields
[NASA-CASE-NPO-18187-1-CU] c 70 N92-29130

Magnetic power piston fluid compressor
[NASA-CASE-GSC-13565-1] c 37 N94-23831

MAGNETIC FILMS

Manganese bismuth films with narrow transfer characteristics for Cune-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

MAGNETIC FLUX

Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329

Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423

Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123

Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997

Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800

Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516

Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361

Magnetic bearing — for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574

Linear magnetic motor/generator — to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421

Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067

Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038

MAGNETIC FORMING

Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833

Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865

MAGNETIC INDUCTION

Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946

Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892

Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364

Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235

High speed shutter — electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300

Magnetic drive coupling
[NASA-CASE-MS-21171-1] c 37 N88-23973

Method and apparatus for using magneto-acoustic remanence to determine embrittlement
[NASA-CASE-LAR-13817-5] c 39 N92-28757

Magnetic remanence method and apparatus to test materials for embrittlement
[NASA-CASE-LAR-13817-4] c 39 N92-29101

Magneto acoustic emission method for testing materials for embrittlement
[NASA-CASE-LAR-13817-2] c 39 N92-29155

MAGNETIC LENSES

Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325

MAGNETIC MATERIALS

Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124

Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120

MAGNETIC MEASUREMENT

Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423

Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962

RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171

Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390

Precision measurement of magnetic characteristics of an article with nullification of external magnetic fields
[NASA-CASE-NPO-18187-1-CU] c 70 N92-29130

MAGNETIC PERMEABILITY

Linear motion valve
[NASA-CASE-MS-20148-1] c 37 N85-29284

MAGNETIC POLES

Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929

Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406

MAGNETIC PROPERTIES

Method and apparatus for using magneto-acoustic remanence to determine embrittlement
[NASA-CASE-LAR-13817-5] c 39 N92-28757

Precision measurement of magnetic characteristics of an article with nullification of external magnetic fields
[NASA-CASE-NPO-18187-1-CU] c 70 N92-29130

MAGNETIC PUMPING

Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516

Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361

Magnetocaloric pump — for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904

Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625

MAGNETIC RECORDING

Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710

Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210

Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246

- Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678
- Disk memory device
[NASA-CASE-GSC-13196-1] c 60 N92-29132
- MAGNETIC SIGNALS**
- Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467
- MAGNETIC STORAGE**
- Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
- Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
- Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
- Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
- Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365
- MAGNETIC SUSPENSION**
- Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
- Magnetic suspension and pointing system — on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372
- Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
- Single element magnetic suspension actuator
[NASA-CASE-LAR-13981-1] c 37 N91-21539
- Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N91-21824
- MAGNETIC SWITCHING**
- Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
- Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000
- Magnetically switched power supply system for lasers
[NASA-CASE-NPO-16402-2] c 33 N88-24862
- MAGNETIC TAPE TRANSPORTS**
- Reel safety brake
[NASA-CASE-GSC-11960-1] c 37 N77-14479
- MAGNETIC TAPES**
- Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647
- Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
- Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978
- System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
- Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
- Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MS-C-14219-1] c 32 N74-27612
- Automatic character skew and spacing checking network — of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
- Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372
- MAGNETIC TRANSDUCERS**
- Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
- MAGNETIZATION**
- Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
- MAGNETO-OPTICS**
- Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
- MAGNETOACOUSTIC WAVES**
- Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170
- MAGNETOACOUSTICS**
- Method and apparatus for using magneto-acoustic remanence to determine embrittlement
[NASA-CASE-LAR-13817-5] c 39 N92-28757
- Magnetic remanence method and apparatus to test materials for embrittlement
[NASA-CASE-LAR-13817-4] c 39 N92-29101
- Magneto acoustic emission method for testing materials for embrittlement
[NASA-CASE-LAR-13817-2] c 39 N92-29155
- Method of characterizing residual stress in ferromagnetic materials using a pulse histogram of acoustic emission signals
[NASA-CASE-LAR-14239-1] c 26 N93-14705

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- Hybrid plume plasma rocket
[NASA-CASE-MS-C-20476-2] c 20 N89-25279
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- Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929
- Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
- Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
- Crossed-field MHD plasma generator/accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
- Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573

MAGNETOMETERS

- Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
- Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
- Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
- Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
- Optically pumped resonance magnetometer for determining vectorial components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428
- Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
- Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
- Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
- Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
- Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
- Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
- Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
- Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444

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- Magnetostriuctive roller drive motor
[NASA-CASE-GSC-13369-1] c 33 N92-15331

MAGNETRON SPUTTERING

- Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543

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- Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841

MAGNETS

- Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
- Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
- Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
- Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
- Linear motion valve
[NASA-CASE-MS-C-20148-1] c 37 N85-29284

MAGNIFICATION

- Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
- Magnifying scratch gage force transducer
[NASA-CASE-LAR-10496-1] c 14 N72-22437
- Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
- Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
- Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124
- Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594
- Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096

- Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809

MAGNITUDE

- Balance torque meter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725

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- Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
- Bonding or repairing process
[NASA-CASE-MS-C-12357] c 15 N73-12489
- Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
- System and method for refurbishing and processing parachutes — monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073
- Computer circuit card puller
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- Method for refurbishing and processing parachutes
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- Method for repair of thin glass coatings — on space shuttle orbiter tiles
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- Method of repairing surface damage to porous refractory substrates — space shuttle orbiter tiles
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- Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
- High-pressure promoted combustion chamber
[NASA-CASE-MS-C-21470-1] c 09 N91-21157

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[NASA-CASE-NPO-16103-1] c 27 N85-29043
- Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
- Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909

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- Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
- Accelerometer method and apparatus for integral display and control functions
[NASA-CASE-MS-C-21961-1] c 35 N92-29952
- Valve malfunction detection apparatus
[NASA-CASE-MFS-29904-1] c 35 N93-29503

MAMMALS

- Spiral vane bioreactor
[NASA-CASE-MS-C-21361-1] c 51 N91-21701
- Multi-cellular, three-dimensional living mammalian tissue
[NASA-CASE-MS-C-21560-2] c 51 N94-35232

MAN MACHINE SYSTEMS

- User friendly joystick
[NASA-CASE-GSC-13187-1] c 33 N92-29153
- Compliant walker
[NASA-CASE-GSC-13348-2] c 52 N93-14708

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- Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
- Rotating mandrel for assembly of inflatable devices Patent
[NASA-CASE-XLA-04143] c 15 N71-17687
- Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779

MANEUVERABILITY

- Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479

MANGANESE

- Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

MANIFOLDS

- Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
- Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
- Collimated beam manifold with the number of output beams variable at a given output angle
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- Extended temperature range rocket injector
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- Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
- Orthotic arm joint — for use in mechanical arms
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Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
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Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758

Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457

Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460

Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721

Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676

Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652

Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551

Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320

Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718

Terminal guidance sensor system — space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519

Apparatus for sequentially transporting containers
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Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286

Sequentially deployable maneuverable tetrahedral beam
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Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603

Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789

Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352

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- Resonant isolator for maser amplifier
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- Microwave power receiving antenna Patent
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- Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
- Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888
- Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
- Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
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- Omnidirectional slot antenna for mounting on cylindrical space vehicle
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- Multiple reflection conical microwave antenna
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- Thin conformal antenna array for microwave power conversions
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- Cavity-backed, micro-strip dipole antenna array
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- Universal nondestructive mm-wave integrated circuit test fixture
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- Maser cavity servo-tuning system
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- Broadband microwave waveguide window Patent
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- Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214

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- Microwave dichroic plate
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- Instrumentation for sensing moisture content of material using a transient thermal pulse
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- Three point lead screw positioning apparatus for a cavity tuning plate
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- High power microwave power divider Patent
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- High-Q bandpass resonators utilizing bandstop resonator pairs
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[NASA-CASE-XER-07894] c 09 N71-18721
- Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013

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- Magnetically actuated tuning method for Gunn oscillators
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- Electron beam controller — using magnetic field to refocus spent electron beam in microwave oscillator tube
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- Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596
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- Magnetic heading reference
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[NASA-CASE-XNP-01458] c 04 N78-17031
- System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
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- Magnetic heading reference
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- Solid-state current transformer
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- Electromagnetic polarization systems and methods Patent
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- High speed phase detector Patent
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- Fast temporal neural learning using teacher forcing
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- Neural network training by integration of adjoint systems of equations forward in time
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- Neural network for processing both spatial and temporal data with time based back-propagation
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- A neural network with modular hierarchical learning
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- Deuterium pass through target — neutron emitting target
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- Brazing alloy composition
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- Method of making a light weight battery plaque
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- Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B Patent
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- Nickel base alloy
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- Nickel base coating alloy
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- NiAl-base composite containing high volume fraction of AlN for advanced engines
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- Nickel aluminate coated low alloy stainless steel
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- Selective coating for solar panels — using black chrome and black nickel
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- Brazing alloy
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- Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
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Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
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- Injection head for delivering liquid fuel and oxidizers
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- Atomic oxygen protective coating with resistance to undercutting at defect sites
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- Utilization of oxygen difluoride for syntheses of fluoropolymers
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P

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[NASA-CASE-MFS-22343-1] c 33 N74-34638
Method of fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780

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- Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085

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- Folding apparatus Patent
[NASA-CASE-XLA-00137] c 15 N70-33180
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[NASA-CASE-XLA-00138] c 31 N70-37981
Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
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- Non-blocking crossbar permutation engine with constant routing latency
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[NASA-CASE-NPO-18983-1-CU] c 62 N94-17330

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- Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
Non-blocking crossbar permutation engine with constant routing latency
[NASA-CASE-NPO-18864-1-CU] c 62 N94-17328

PACKETS (COMMUNICATION)

- Non-blocking crossbar permutation engine with constant routing latency
[NASA-CASE-NPO-18864-1-CU] c 62 N94-17328

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- Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
High density tape casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N90-19425

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- Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541

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- Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562

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- Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469

- Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
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[NASA-CASE-XNP-02139] c 18 N71-24184
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[NASA-CASE-GSC-12883-1] c 27 N85-29044
An improved patch for radiative coolers
[NASA-CASE-GSC-13503-1] c 37 N94-20127

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- Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396

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- Prevention of pressure build-up in electrochemical cells
Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MSC-13335-1] c 06 N72-31140

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- All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10789
Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c 15 N71-29018
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[NASA-CASE-ERC-10364] c 18 N72-25540
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[NASA-CASE-XLA-08916-2] c 14 N73-28487
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[NASA-CASE-MFS-20335-1] c 35 N74-10415
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[NASA-CASE-XHQ-02146] c 18 N75-27040
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[NASA-CASE-LAR-11898-2] c 24 N78-17149
Selective coating for solar panels — using black chrome and black nickel
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[NASA-CASE-NPO-12148-1] c 44 N78-27515
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[NASA-CASE-LAR-13761-1] c 34 N90-20323
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[NASA-CASE-LEW-14695-1] c 37 N90-23751
Orbital debris sweeper and method
[NASA-CASE-MSC-21534-1] c 18 N91-21222
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Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-33022
Sandwiched structural panel having a bi-directional core structure
[NASA-CASE-MFS-28796-1] c 24 N93-19022
Deployable reflector structure
[NASA-CASE-LAR-14513-1-SB] c 32 N94-29360

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- Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769

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- Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

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- Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

PARA HYDROGEN

- Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

PARABOLIC ANTENNAS

- Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219

- Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696
Switchable beamwidth-monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
Telescoping columns — parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
Antenna surface contour control system
[NASA-CASE-LAR-13788-1] c 32 N89-25363

PARABOLIC REFLECTORS

- Parabolic reflector horn feed with spillover correction
Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
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[NASA-CASE-XMS-03454] c 09 N71-20658
Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
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[NASA-CASE-MFS-23349-1] c 44 N79-23481
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[NASA-CASE-MFS-23727-1] c 44 N80-14473
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363
A satellite-tracking millimeter-wave reflector antenna system for mobile satellite-tracking
[NASA-CASE-NPO-18772-1-CU] c 32 N93-28955

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- Optical data processing using paraboloidal mirror segments
[NASA-CASE-GSC-11296-1] c 23 N73-30666
Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c 74 N74-27866

PARACHUTE DESCENT

- Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
Vehicle parachute and equipment jettison system
Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017
Vortex breach high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898

PARACHUTE FABRICS

- Lightweight, variable solidity knitted parachute fabric — for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330

PARACHUTES

- System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
Deploy/release system — model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014
System and method for refurbishing and processing parachutes — monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
Parachute having improved vent line stacking
[NASA-CASE-MFS-28508-1] c 02 N94-11021

PARAGLIDERS

- Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804

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- Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

PARALLEL COMPUTERS

- Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N93-29608

PARALLEL PLATES

- Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584

SUBJECT INDEX

Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265

Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360

Consecutive plate acoustic suppressor apparatus and methods
[NASA-CASE-LEW-15430-1] c 71 N93-17051

Method for controlling protein crystallization
[NASA-CASE-MFS-28688-1] c 76 N94-20528

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Digital data reformatting/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378

Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491

Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890

Method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N91-14769

Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805

Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852

Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N92-22033

Synchronous parallel system for emulation and discrete event simulation
[NASA-CASE-NPO-18414-1-CU] c 62 N92-24045

Digital parallel processor array for optimum path planning
[NASA-CASE-NPO-18727-1-CU] c 62 N93-28427

Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N93-29608

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Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321

PARAMETRIC AMPLIFIERS

Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258

Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660

PARAMETRIC FREQUENCY CONVERTERS

Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192

PARASITIC ELEMENTS (ANTENNAS)

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[NASA-CASE-XLA-00414] c 07 N70-38200

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Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630

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Automated multi-level vehicle parking system
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PARTIAL PRESSURE

Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741

Converting a CO₂ atmosphere to a high-purity O₂ supply
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PARTICLE ACCELERATION

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[NASA-CASE-XLE-01533] c 11 N71-10777

Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213

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Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c 73 N74-26767

Deuterium pass through target — neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860

Closed loop spray cooling apparatus — for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237

PARTICLE BEAMS

Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602

Doppler shift system — system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310

Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575

Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936

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Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990

Ion generator and ion application system
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Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332

PARTICLE EMISSION

Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401

Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328

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Particle detection apparatus Patent
[NASA-CASE-XLA-00135] c 14 N70-33322

Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509

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Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813

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Cosmic dust analyzer
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[NASA-CASE-MSC-11242] c 35 N78-17358

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Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393

Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412

Vaporizing particle velocimeter
[NASA-CASE-LAR-14685-1] c 02 N92-34172

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Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936

Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382

Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153

Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683

Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386

Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364

Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242

Polyvinyl alcohol battery separator containing inert filler — alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615

Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561

Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846

Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N92-15114

PARTICLE TRAJECTORIES

Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433

Direction sensitive laser velocimeter — determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422

PARTICLES

Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440

Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535

Particle parameter analyzing system — x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293

Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152

Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765

Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428

Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603

Controlled method of reducing electrophoretic mobility of macromolecules, particles, or cells
[NASA-CASE-MFS-26049-2-NP] c 25 N92-28728

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NiAl-base composite containing high volume fraction of AlN for advanced engines
[NASA-CASE-LEW-15818-1] c 24 N94-36752

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Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376

Electrophoretic sample insertion — device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948

Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c 35 N76-18401

Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192

Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527

Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184

Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N91-21545

High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N92-16241

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Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376

High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N92-16241

Spiral fluid separator
[NASA-CASE-MFS-28658-1] c 34 N94-20361

PASSAGEWAYS

Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936

Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209

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Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

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Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309

Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678

Method of making an inflatable panel Patent
[NASA-CASE-XLA-03497] c 15 N71-23052

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Passivation of high temperature superconductors
[NASA-CASE-NPO-17949-1-CU] c 76 N92-10681

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Whole body cleaning agent containing N-acyltaurate
[NASA-CASE-MSC-21589-1] c 54 N92-29137

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Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072

Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494

High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191

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Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159

Rapidly quantifying the relative distortion of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519

PATTERN RECOGNITION

Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161

Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014

Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301

Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078

Programmable pipelined image processor
[NASA-CASE-NPO-16461-1CU] c 60 N89-26400

General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911

Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N91-25317

Method and apparatus for predicting the direction of movement in machine vision
[NASA-CASE-NPO-17552-1-CU] c 54 N92-29129

General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N93-18282

Hidden Markov models for fault detection in dynamic systems
[NASA-CASE-NPO-18982-1-CU] c 38 N93-30413

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Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-1] c 82 N91-23976

PAYLOAD DELIVERY (STS)

- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
- PAYLOAD DEPLOYMENT & RETRIEVAL SYSTEM**
Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660
- PAYLOAD RETRIEVAL (STS)**
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
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[NASA-CASE-MFS-25403-1] c 18 N83-29303
- PAYLOADS**
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[NASA-CASE-XLA-00838] c 03 N70-36778
- Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
- Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
- Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
- Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
- Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
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[NASA-CASE-MFS-15429-1] c 18 N84-22609
- Payload retention device
[NASA-CASE-MSC-21906-1] c 37 N92-28727
- Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N92-33010
- Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N92-33013
- Suspension system for gimbal supported scanning payloads
[NASA-CASE-MFS-28817-1] c 35 N94-29358
- PCM TELEMETRY**
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
- Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
- High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197
- PEELING**
Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419
- PEENING**
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- PELLETS**
Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
- Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
- PELTIER EFFECTS**
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[NASA-CASE-XGS-04808] c 03 N69-25146
- Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604
- PELVIS**
Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507
- PENETRANTS**
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
- PENETRATION**
Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879
- Fire extinguishing apparatus having a slidable mass for a penetrator nozzle — for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
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[NASA-CASE-LAR-13616-1] c 74 N91-31950
Single layer multi-color luminescent display and method of making
[NASA-CASE-LAR-13616-3] c 74 N92-29158
A method of making a single layer multi-color luminescent display
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- PHOSPHORUS**
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[NASA-CASE-LAR-12958-1] c 44 N84-23019
Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
The 1-((diorganoxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
Some 1-((diorganoxyphosphonyl)-methyl)-2,4- and -2,6-dinitro-benzenes
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- PHOSPHORUS COMPOUNDS**
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[NASA-CASE-ARC-11321-1] c 27 N81-27272
Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
The 1-((diorganoxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
- PHOSPHORUS POLYMERS**
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[NASA-CASE-ARC-11176-2] c 27 N81-27271
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- PHOTOABSORPTION**
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- PHOTOCATHODES**
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[NASA-CASE-XNP-04161] c 14 N71-15599
III-V photocathode with nitrogen doping for increased quantum efficiency
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- PHOTOCHEMICAL REACTIONS**
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[NASA-CASE-NPO-13566-1] c 25 N77-32255
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[NASA-CASE-LEW-12465-1] c 25 N78-25148
Violet-violet process for producing flame resistant polyamides and products produced thereby — protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
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- PHOTOCROMISM**
All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N92-16808
- PHOTOCONDUCTIVE CELLS**
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
- Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
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[NASA-CASE-LAR-12513-1] c 44 N82-32841
- PHOTOCONDUCTIVITY**
Photoetching of metal-oxide layers
[NASA-CASE-ERC-10108] c 06 N72-21094
- PHOTOCONDUCTORS**
Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480
Etching method for photoresists or polymers
[NASA-CASE-ARC-11873-2] c 25 N91-31258
- PHOTODIODES**
Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
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[NASA-CASE-GSC-13493-1] c 32 N94-23827
- PHOTODISSOCIATION**
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
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- PHOTOELECTRIC CELLS**
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[NASA-CASE-NPO-12127-1] c 91 N74-13130
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- PHOTOELECTRIC MATERIALS**
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- PHOTOELECTRONS**
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- PHOTOGRAPHIC EMULSIONS**
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
Method for retarding dye fading during archival storage of developed color photographic film — inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
- PHOTOGRAPHIC EQUIPMENT**
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[NASA-CASE-NPO-10174] c 14 N71-18465
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- System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
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- PHOTOGRAPHIC FILM**
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
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[NASA-CASE-LAR-10319-1] c 14 N73-32322
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[NASA-CASE-NPO-13808-1] c 35 N78-15461
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[NASA-CASE-MFS-23250-1] c 35 N82-11432
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- PHOTOGRAPHIC MEASUREMENT**
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[NASA-CASE-LAR-10913] c 14 N72-16282
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387
- PHOTOGRAPHIC PROCESSING**
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
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[NASA-CASE-MFS-23461-1] c 35 N79-10389
- PHOTOGRAPHIC PROCESSING EQUIPMENT**
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[NASA-CASE-GSC-11074-1] c 14 N73-28489
- PHOTOGRAPHIC RECORDING**
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[NASA-CASE-XLA-01353] c 14 N70-41366
Focused image holography with extended sources
[NASA-CASE-ERC-10019] c 16 N71-15551
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[NASA-CASE-ERC-10017] c 16 N71-15567
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[NASA-CASE-ERC-10020] c 16 N71-26154
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[NASA-CASE-XGS-03736] c 14 N72-22443
Method for determining thermo-physical properties of specimens — photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
- PHOTOGRAPHY**
System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
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- PHOTOMASKS**
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- PHOTOMECHANICAL EFFECT**
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- PHOTOMETERS**
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[NASA-CASE-NPO-10320] c 14 N71-17655
- Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
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[NASA-CASE-XNP-01059] c 23 N71-21821
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[NASA-CASE-XGS-01331] c 14 N71-22996
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[NASA-CASE-ERC-10174] c 14 N72-25409
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[NASA-CASE-ARC-10633-1] c 25 N74-26947
The 2 deg/90 deg laboratory scattering photometer — particulate refractivity in hydrosols
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[NASA-CASE-NPO-11954-1] c 35 N78-29421
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[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
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- PHOTOMULTIPLIER TUBES**
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[NASA-CASE-XLA-07813] c 14 N72-17328
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- Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects [NASA-CASE-GSC-12851-1] c 35 N85-30281
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[NASA-CASE-MFS-20607-1] c 37 N76-19436
- Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
- POLYURETHANE RESINS**
- Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
- Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144
- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
- Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
- Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
- Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103
- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
- Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213

POLYVINYL ALCOHOL

- In situ self cross-linking of polyvinyl alcohol battery separators
 [NASA-CASE-LEW-12972-1] c 44 N79-25481
 Method of cross-linking polyvinyl alcohol and other water soluble resins
 [NASA-CASE-LEW-13103-1] c 27 N80-32516
 In-situ cross linking of polyvinyl alcohol — application to battery separator films
 [NASA-CASE-LEW-13135-2] c 27 N81-24257
 Polyvinyl alcohol battery separator containing inert filler — alkaline batteries
 [NASA-CASE-LEW-13556-1] c 44 N81-27615
 Cross-linked polyvinyl alcohol and method of making same
 [NASA-CASE-LEW-13101-2] c 23 N81-29160
 Polyvinyl alcohol cross-linked with two aldehydes
 [NASA-CASE-LEW-13504-1] c 25 N83-13188
 Ion exchange polymers and method for making
 [NASA-CASE-LEW-15576-1] c 27 N93-31316

POLYVINYL CHLORIDE

- Hydraulic lifting device
 [NASA-CASE-SSC-00008-1] c 37 N91-13733

PONDS

- Stable density stratification solar pond
 [NASA-CASE-NPO-15419-2] c 44 N85-30474

PORCELAIN

- Refractory porcelain enamel passive control coating for high temperature alloys
 [NASA-CASE-MFS-22324-1] c 27 N75-27160

POROSITY

- Process for making sheets with parallel pores of uniform size
 [NASA-CASE-GSC-10984-1] c 37 N75-26371
 Krypton based adsorption type cryogenic refrigerator
 [NASA-CASE-NPO-17334-1-CU] c 31 N88-23917
 Porous plug for reducing orifice induced pressure error in airfoils
 [NASA-CASE-LAR-13569-1] c 35 N89-12841
 Method for maintaining precise suction strip porosities
 [NASA-CASE-LAR-13638-1] c 31 N90-19427
 Regenerative Cu/La zeolite supported desulfurizing sorbents
 [NASA-CASE-NPO-17480-1-CU] c 25 N92-10073
 Toughened uni-piece fibrous insulation
 [NASA-CASE-ARC-11888-1] c 24 N92-16026
 Passive control of pressure loads using porosity
 [NASA-CASE-LAR-14547-1] c 34 N92-17909
 Control and augmentation of passive porosity through transpiration control
 [NASA-CASE-LAR-14682-1] c 34 N92-30387
 Selective formation of porous silicon
 [NASA-CASE-NPO-18735-1-CU] c 27 N94-15960

POROUS BOUNDARY LAYER CONTROL

- Boundary layer control device for duct silencers
 [NASA-CASE-ARC-12030-1] c 71 N94-29362

POROUS MATERIALS

- Method of producing refractory bodies having controlled porosity Patent
 [NASA-CASE-LEW-10393-1] c 17 N71-15468
 Multilayer porous ionizer Patent
 [NASA-CASE-XNP-04338] c 17 N71-23046
 Fluid lubricant system Patent
 [NASA-CASE-XNP-03972] c 15 N71-23048
 Method and device for detecting voids in low density material Patent
 [NASA-CASE-MFS-20044] c 14 N71-28993
 Fabrication of controlled-porosity metals Patent
 [NASA-CASE-XNP-04339] c 17 N71-29137
 Compressible biomedical electrode
 [NASA-CASE-MSC-13648] c 05 N72-27103
 Porous electrode comprising a bonded stack of pieces of corrugated metal foil
 [NASA-CASE-GSC-11368-1] c 09 N73-32108
 Method of making porous conductive supports for electrodes — by electroforming and stacking nickel foils
 [NASA-CASE-GSC-11367-1] c 44 N74-19692
 Fluid valve assembly
 [NASA-CASE-MSC-12731-1] c 37 N78-25426
 Heat exchanger and method of making — bonding rocket chambers with a porous metal matrix
 [NASA-CASE-LEW-12441-1] c 34 N79-13289
 Composite seal for turbomachinery
 [NASA-CASE-LEW-12131-3] c 37 N82-19540
 Densification of porous refractory substrates — space shuttle orbiter tiles
 [NASA-CASE-MSC-18737-1] c 24 N83-13171
 Method of repairing surface damage to porous refractory substrates — space shuttle orbiter tiles
 [NASA-CASE-MSC-18736-1] c 24 N83-13172
 Advanced inorganic separators for alkaline batteries and method of making the same
 [NASA-CASE-LEW-13171-2] c 44 N83-32176
 Water-absorbing capacitor system for measuring relative humidity
 [NASA-CASE-NPO-16544-1-CU] c 35 N87-22953

- Control and augmentation of passive porosity through transpiration control
 [NASA-CASE-LAR-14682-1] c 34 N92-30387
 Method for preparation of a microporous structure with layered interstitial surface treatment
 [NASA-CASE-MSC-21487-2] c 24 N93-29023
 Buried porous silicon-germanium layers in monocrystalline silicon lattices and method of producing
 [NASA-CASE-NPO-18836-1-CU] c 76 N94-17327
 Microporous structure with layered interstitial surface treatment, and method and apparatus for preparation thereof
 [NASA-CASE-MSC-21487-3] c 25 N94-35229

POROUS PLATES

- Method of producing porous tungsten ionizers for ion rocket engines Patent
 [NASA-CASE-XLE-00455] c 28 N70-38197
 Boundary layer control device for duct silencers
 [NASA-CASE-ARC-12030-1] c 71 N94-29362

PORPHYRINS

- Method and apparatus for eliminating luminol interference material
 [NASA-CASE-MSC-16260-1] c 51 N80-16714

PORTABLE EQUIPMENT

- Split welding chamber Patent
 [NASA-CASE-LEW-11531] c 15 N71-14932
 Portable superclean air column device Patent
 [NASA-CASE-XMF-03212] c 15 N71-22721
 Weld preparation machine Patent
 [NASA-CASE-XKS-07953] c 15 N71-26134
 Method and apparatus for precision sizing and joining of large diameter tubes Patent
 [NASA-CASE-XMF-05114-2] c 15 N71-26148
 Cryogenic cooling system Patent
 [NASA-CASE-NPO-10467] c 23 N71-26654
 Boring bar drive mechanism Patent
 [NASA-CASE-XLA-03661] c 15 N71-33518
 One hand backpack harness
 [NASA-CASE-LAR-10102-1] c 05 N72-23085
 Bacterial contamination monitor
 [NASA-CASE-GSC-10879-1] c 14 N72-25413
 Self-recording portable soil penetrometer
 [NASA-CASE-MFS-20774] c 14 N73-19420
 Hand-held photomicroscope
 [NASA-CASE-ARC-10468-1] c 14 N73-33361
 System for enhancing tool-exchange capabilities of a portable wrench
 [NASA-CASE-MFS-22283-1] c 37 N75-33395
 Method of peening and portable peening gun
 [NASA-CASE-MFS-23047-1] c 37 N76-18454
 Portable electrophoresis apparatus using minimum electrolyte
 [NASA-CASE-NPO-13274-1] c 25 N79-10163
 Portable heatable container
 [NASA-CASE-NPO-14237-1] c 44 N80-20808
 Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
 [NASA-CASE-FRC-10113-1] c 33 N80-26599
 Portable appliance security apparatus
 [NASA-CASE-GSC-12399-1] c 33 N81-25299
 Dual-beam skin friction interferometer
 [NASA-CASE-ARC-11354-1] c 74 N83-21949
 Two-dimensional scanner apparatus — flaw detector in small flat plates
 [NASA-CASE-MFS-25687-1] c 35 N84-22928
 Portable reflectance spectrometer
 [NASA-CASE-NPO-13556-1] c 35 N84-33766
 Portable pallet weighing apparatus
 [NASA-CASE-GSC-12789-1] c 35 N85-20294
 Portable remote laser sensor for methane leak detection
 [NASA-CASE-NPO-15790-1] c 36 N85-21631
 Portable 90 degree proof loading device
 [NASA-CASE-MSC-20250-1] c 35 N86-19581
 Acoustic guide for noise-transmission testing of aircraft
 [NASA-CASE-LAR-13111-1-CU] c 71 N87-21652

PORTABLE LIFE SUPPORT SYSTEMS

- Portable breathing system — a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
 [NASA-CASE-MSC-16182-1] c 54 N80-10799

PORTS (OPENINGS)

- Evacuation port seal Patent
 [NASA-CASE-XMF-03290] c 15 N71-23256
 Safety shield for vacuum/pressure chamber viewing port
 [NASA-CASE-GSC-12513-1] c 31 N81-19343

POSITION (LOCATION)

- Position location system and method Patent
 [NASA-CASE-GSC-10087-2] c 21 N71-13958
 Position location and data collection system and method Patent
 [NASA-CASE-GSC-10083-1] c 30 N71-16090
 Emergency escape system Patent
 [NASA-CASE-XKS-07814] c 15 N71-27067

- Position location system and method
 [NASA-CASE-GSC-10087-3] c 07 N72-12080
 Location identification system
 [NASA-CASE-ERC-10324] c 07 N72-25173
 Cosmic dust or other similar outer space particles impact location detector
 [NASA-CASE-GSC-11291-1] c 25 N72-33696
 Collimator of multiple plates with axially aligned identical random arrays of apertures
 [NASA-CASE-MFS-20546-2] c 14 N73-30389
 Measuring probe position recorder
 [NASA-CASE-LAR-10806-1] c 35 N74-32877
 Vehicle locating system utilizing AM broadcasting station carriers
 [NASA-CASE-NPO-13217-1] c 32 N75-26194
 Impact position detector for outer space particles
 [NASA-CASE-GSC-11829-1] c 35 N75-27331
 Aircraft-mounted crash-activated transmitter device
 [NASA-CASE-MFS-16609-3] c 03 N76-32140
 Twin-capacitive shaft angle encoder with analog output signal
 [NASA-CASE-ARC-10897-1] c 33 N77-31404
 X-ray position detector
 [NASA-CASE-NPO-12087-1] c 74 N81-19898
 Adjustable indicating device for load position
 [NASA-CASE-MFS-28008-1] c 35 N85-20300
 Controlled sample orientation and rotation in an acoustic levitator
 [NASA-CASE-NPO-17086-1-CU] c 35 N89-14422
 Acoustic controlled rotation and orientation
 [NASA-CASE-NPO-16995-1-CU] c 71 N90-12289
 Variable magnification glancing incidence x ray telescope
 [NASA-CASE-MFS-28013-2] c 89 N91-14096
 Acoustic positioning and orientation prediction
 [NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
 Remote object configuration/orientation determination
 [NASA-CASE-NPO-17436-1-CU] c 35 N91-15512
 System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
 [NASA-CASE-NPO-17937-1-CU] c 43 N91-21621
 Emergency locating transmitter
 [NASA-CASE-GSC-12821-2] c 33 N91-31530
 Apparatus for precision focussing and positioning of a beam waist on a target
 [NASA-CASE-ARC-11916-1-SB] c 74 N92-16811
 Two dimensional vernier
 [NASA-CASE-MSC-21700-1] c 35 N92-22039

POSITION ERRORS

- Force reflection with compliance control
 [NASA-CASE-NPO-18668-1-CU] c 37 N94-10654

POSITION INDICATORS

- Scanning aspect sensor employing an apertured disc and a commutator
 [NASA-CASE-XGS-08266] c 14 N69-27432
 Angular measurement system Patent
 [NASA-CASE-XMF-00447] c 14 N70-33179
 Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
 [NASA-CASE-XGS-07514] c 23 N71-16099
 Angular position and velocity sensing apparatus Patent
 [NASA-CASE-XGS-05680] c 14 N71-17585
 Extended area semiconductor radiation detectors and a novel readout arrangement Patent
 [NASA-CASE-XGS-03230] c 14 N71-23401
 Doppler compensation by shifting transmitted object frequency within limits
 [NASA-CASE-GSC-10087-4] c 07 N73-20174
 Meteoroid impact position locator aid for manned space station
 [NASA-CASE-LAR-10629-1] c 35 N75-33367
 Position determination systems — using orbital antenna scan of celestial bodies
 [NASA-CASE-MSC-12593-1] c 17 N76-21250
 Solar cell angular position transducer
 [NASA-CASE-LAR-11999-1] c 44 N80-18552
 Synchronization tracking in pulse position modulation receiver
 [NASA-CASE-NPO-16256-1] c 32 N87-21207
 Aircraft control position indicator
 [NASA-CASE-LAR-12984-1] c 06 N87-22678
 Legislated emergency locating transmitters and emergency position indicating radio beacons
 [NASA-CASE-GSC-12892-1] c 32 N89-14374
 Visual aid for the hearing impaired
 [NASA-CASE-GSC-13027-1-CU] c 35 N91-27522
 Double-driven shield capacitive type proximity sensor
 [NASA-CASE-GSC-13541-1] c 63 N94-15946

POSITION SENSING

- Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
 [NASA-CASE-XGS-07514] c 23 N71-16099
 Laser optical disk position encoder with active heads
 [NASA-CASE-GSC-13175-1] c 74 N92-29133

- Sample positioning in microgravity
[NASA-CASE-NPO-18448-1-CU] c 29 N92-30083
- Sample positioning in microgravity
[NASA-CASE-NPO-18448-1-CU] c 29 N93-24600
- Method and apparatus for deflection measurements using eddy current effects
[NASA-CASE-GSC-13506-1] c 35 N93-26103
- Capacitance camera
[NASA-CASE-GSC-13564-1] c 35 N94-15872
- Double-driven shield capacitive type proximity sensor
[NASA-CASE-GSC-13541-1] c 63 N94-15946
- Rotary encoding device using polygonal mirror with diffraction gratings on each facet
[NASA-CASE-GSC-13543-1] c 74 N94-20240
- POSITIONING**
- Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898
- Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
- Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
- Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740
- Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
- Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304
- Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
- Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N91-21543
- Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811
- POSITIONING DEVICES (MACHINERY)**
- Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
- Caterpillar micro positioner
[NASA-CASE-GSC-10780-1] c 14 N72-16283
- Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462
- Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
- Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
- Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
- Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760
- Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c 37 N77-27400
- Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083
- Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629
- Gripping device
[NASA-CASE-MSC-21365-1] c 37 N90-20408
- Sample positioning in microgravity
[NASA-CASE-NPO-18448-1-CU] c 29 N92-30083
- Page turning system
[NASA-CASE-GSC-13415-1] c 37 N92-33616
- Sample positioning in microgravity
[NASA-CASE-NPO-18448-1-CU] c 29 N93-24600
- Counter-balanced, multiple cable construction crane
[NASA-CASE-LAR-14565-1-CU] c 37 N94-20369
- Three point lead screw positioning apparatus for a cavity turning plate
[NASA-CASE-LEW-15216-1] c 37 N94-20375
- Turntable mechanism
[NASA-CASE-MFS-28522-1] c 37 N94-20380
- POSITIVE FEEDBACK**
- Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
- POSITRONS**
- Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936
- POTABLE WATER**
- Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
- Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
- Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
- Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
- Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
- Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784

- Degassifying and mixing apparatus for liquids — potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652
- Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1-SB] c 51 N93-18351
- POTASSIUM SILICATES**
- Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014
- POTENTIOMETERS**
- Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395
- POTENTIOMETERS (INSTRUMENTS)**
- Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
- Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
- Line following servosystem Patent
[NASA-CASE-XLA-00001] c 15 N71-28952
- Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
- POTTING COMPOUNDS**
- Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
- Flexible, repairable, portable material for electrical connectors Patent
[NASA-CASE-XGS-05180] c 18 N71-25881
- Thermally conductive polymers
[NASA-CASE-GSC-11304-1] c 06 N72-21105
- POWDER (PARTICLES)**
- Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358
- Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561
- Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502
- Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200
- Process for application of powder particles to filamentary materials
[NASA-CASE-LAR-14231-1] c 24 N92-10070
- Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N92-16122
- Polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N92-33014
- Ceramic fiber reinforced glass-ceramic matrix composite
[NASA-CASE-LEW-15262-1] c 24 N93-26100
- Vacuum powder injector and method of impregnating fiber with powder
[NASA-CASE-LAR-14179-1] c 31 N93-26101
- Magnetic power piston fluid compressor
[NASA-CASE-GSC-13565-1] c 37 N94-23831
- POWDER METALLURGY**
- Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
- Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
- Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121
- Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
- Method of forming superalloys
[NASA-CASE-LEW-10805-1] c 15 N73-13465
- Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521
- Method of forming articles of manufacture from superalloy powders
[NASA-CASE-LEW-10805-2] c 37 N74-13179
- Cermet composition and method of fabrication — heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c 27 N76-15311
- Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- One step HIP carring of powder metallurgy composites
[NASA-CASE-LEW-14719-1] c 24 N90-23493
- Method of making carbide/fluoride/silver composites
[NASA-CASE-LEW-14902-1] c 24 N91-27244
- NIAl-base composite containing high volume fraction of AlN for advanced engines
[NASA-CASE-LEW-15818-1] c 24 N94-36752
- POWDERED ALUMINUM**
- Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206

- POWER AMPLIFIERS**
- Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559
- Power supply Patent
[NASA-CASE-XMS-02159] c 10 N71-22961
- Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
- Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
- Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429
- Cascaded transformerless DC-DC voltage amplifier with optically isolated switching devices
[NASA-CASE-NPO-17994-1-CU] c 33 N93-18278
- Method for remotely powering a device such as a lunar rover
[NASA-CASE-LAR-14789-1] c 37 N94-20587
- POWER CONDITIONING**
- Module failure isolation circuit for paralleled inverters — preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
- Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
- Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
- Power supply conditioning circuit
[NASA-CASE-NPO-17233-1-CU] c 33 N88-29095
- POWER CONVERTERS**
- Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
- Microprocessor control of multiple peak power tracking DC/DC converters for use with solar cell arrays
[NASA-CASE-GSC-13450-1] c 44 N92-23463
- Cascaded transformerless DC-DC voltage amplifier with optically isolated switching devices
[NASA-CASE-NPO-17994-1-CU] c 33 N93-18278
- Forback DC-to-DC converter
[NASA-CASE-GSC-13404-1] c 33 N94-15874
- Microprocessor control of multiple peak power tracking DC/DC converters for use with solar cell arrays
[NASA-CASE-GSC-13450-2] c 44 N94-35540
- POWER EFFICIENCY**
- Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
- Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329
- Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
- Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
- Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007
- Family of airfoil shapes for rotating blades — for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
- Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
- Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
- Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
- Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681
- Optical fiber sensor having an active core
[NASA-CASE-LAR-14607-1-SB] c 74 N94-20586
- POWER FACTOR CONTROLLERS**
- Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
- Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
- Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
- Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
- Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877
- POWER GAIN**
- Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
- CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273
- POWER LIMITERS**
- Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221
- POWER LINES**
- Electrical connector for flat cables Patent
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[NASA-CASE-NPO-17024-1-CU] c 35 N88-24943

Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132

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[NASA-CASE-NPO-11330] c 33 N73-26958

Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983

Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390

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Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358

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Q SWITCHED LASERS
Optically detonated explosive device
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Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478

Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509

Method and circuit for shaping laser output pulses
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Method and circuit for controlling the evolution time interval of a laser output pulse
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Method and apparatus for detection and control of prelasers in a Q-switched laser
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[NASA-CASE-NPO-18470-1-CU] c 36 N94-15932

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[NASA-CASE-GSC-12137-1] c 33 N78-32338

QUADRATURES
Automatic quadrature control and measuring system — using optical coupling circuitry
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QUALITATIVE ANALYSIS
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428

Analysis of volatile organic compounds — trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161

Fluid sample collection and distribution system — qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285

QUANTITATIVE ANALYSIS
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199

Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397

Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428

Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141

Analysis of volatile organic compounds — trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161

Electrophoretic oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166

Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849

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III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409

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[NASA-CASE-NPO-18243-1-CU] c 36 N93-13418

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Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260

Quartz ball valve
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Ampoule sealing apparatus and process — for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633

QUARTZ LAMPS
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312

Light shield and cooling apparatus — high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066

QUEUEING THEORY
Neural-network dedicated processor for solving competitive assignment problems
[NASA-CASE-NPO-17781-1-CU] c 60 N93-20116

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Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups — for thermoplastic resins
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Polyphenylquinoxalines via aromatic nucleophilic displacement
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RACKS (FRAMES)

Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267

Thrust-isolating mounting — characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397

Automated syringe sampler — remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751

RADAR ANTENNAS

Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625

Variable beamwidth antenna — with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295

Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365

Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308

RADAR ATTENUATION

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RADAR BEACONS

Video processor for air traffic control beacon system
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Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692

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[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672

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[NASA-CASE-MSC-21334-1] c 32 N91-25317

RADAR DATA

Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342

Generation of topographic terrain models utilizing synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546

RADAR DETECTION

Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692

RADAR ECHOES

Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342

RADAR EQUIPMENT

Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118

FM/CW radar system
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RADAR IMAGERY

Method of locating persons in distress — by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267

Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195

Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498

Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297

Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968

Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918

Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594

- Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642
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[NASA-CASE-GSC-13212-1] c 43 N91-32546
- RADAR MEASUREMENT**
Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
- RADAR RANGE**
Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911
Method for ambiguity resolution in range-Doppler measurements
[NASA-CASE-GSC-13542-1] c 32 N94-29739
- RADAR RECEIVERS**
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
- RADAR RECEPTION**
Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911
- RADAR REFLECTORS**
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
Method of locating persons in distress — by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267
- RADAR TARGETS**
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951
Method for ambiguity resolution in range-Doppler measurements
[NASA-CASE-GSC-13542-1] c 32 N94-29739
- RADAR TRACKING**
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
Monopulse tracking system Patent
[NASA-CASE-XGS-01155] c 10 N71-21483
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
Motion-sensitive optical correlator
[NASA-CASE-NPO-18769-1-CU] c 74 N93-28133
- RADAR TRANSMITTERS**
High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119
- RADIAL DISTRIBUTION**
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932
- RADIAL FLOW**
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
- RADIANCE**
Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896
- RADIANT COOLING**
Direct radiation cooling of the collector of linear beam tubes
[NASA-CASE-XNP-09227] c 15 N69-24319
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
Radiative cooler — spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903
Liquid sheet radiator apparatus
[NASA-CASE-LEW-14295-1] c 31 N91-15424
An improved patch for radiative coolers
[NASA-CASE-GSC-13503-1] c 37 N94-20127
- RADIANT FLUX DENSITY**
High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
- RADIANT HEATING**
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
High temperature heat source Patent
[NASA-CASE-XLE-00490] c 33 N70-34545
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
- Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
High thermal power density heat transfer — thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399
- RADIATION**
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447
Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731
Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709
- RADIATION ABSORPTION**
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N94-20372
- RADIATION COUNTERS**
Particle detection apparatus Patent
[NASA-CASE-XLA-00135] c 14 N70-33322
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430
Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328
Radiation and particle detector and amplifier
[NASA-CASE-NPO-12128-1] c 14 N73-32317
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
Particle parameter analyzing system — x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293
Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
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[NASA-CASE-NPO-15423-1] c 35 N84-28016
Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
- RADIATION DAMAGE**
Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof — and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
- RADIATION DETECTORS**
Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348
Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
- Radiant source tracker independent of nonconstant irradiance
[NASA-CASE-NPO-11686] c 14 N73-25462
Radiation and particle detector and amplifier
[NASA-CASE-NPO-12128-1] c 14 N73-32317
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410
Wide angle sun sensor — consisting of cylinder, insulation and pair of detectors
[NASA-CASE-NPO-13327-1] c 35 N75-23910
Detector absorptivity measuring method and apparatus
[NASA-CASE-LAR-10907-1] c 35 N76-29551
Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449
X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835
Multiwavelength pyrometer for gray and non-gray surfaces in the presence of interfering radiation
[NASA-CASE-LEW-15250-1] c 35 N94-35383
- RADIATION DISTRIBUTION**
Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N94-20372
- RADIATION DOSAGE**
Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430
Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
Aberration correction of unstable resonators
[NASA-CASE-NPO-18791-1-CU] c 35 N94-15987
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N94-20372
- RADIATION EFFECTS**
Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892
Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N94-20372
- RADIATION HARDENING**
Radiation hardening of MOS devices by boron — for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
- RADIATION HAZARDS**
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
- RADIATION MEASUREMENT**
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447
- RADIATION MEASURING INSTRUMENTS**
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946
Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447
Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235

Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c 14 N73-28488

Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392

Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949

Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232

RADIATION MEDICINE
Method of producing I-123 — by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383

RADIATION PROTECTION
Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat
Patent
[NASA-CASE-XNP-01310] c 33 N71-28852

Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440

Photomultiplier circuit including means for rapidly reducing the sensitivity thereof — and protection from radiation damage
[NASA-CASE-ARC-10583-1] c 33 N74-27682

Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036

Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498

RADIATION PYROMETERS
Correction-free pyrometry in radiant wall furnaces
[NASA-CASE-NPO-18655-1-CU] c 35 N94-35114

Multiwavelength pyrometer for gray and non-gray surfaces in the presence of interfering radiation
[NASA-CASE-LEW-15250-1] c 35 N94-35383

RADIATION SHIELDING
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422

Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482

Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600

Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781

Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893

Light shield and cooling apparatus — high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066

Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515

Cryogenic shutter
[NASA-CASE-GSC-13189-2] c 37 N92-29151

RADIATION SOURCES
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985

Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595

Radiant source tracker independent of nonconstant radiance
[NASA-CASE-NPO-11686] c 14 N73-25462

High powered arc electrodes — producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913

Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318

Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594

Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096

Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388

Multispectral variable magnification glancing incidence ray telescope
[NASA-CASE-MFS-28013-4] c 89 N92-33012

Purification system
[NASA-CASE-MSC-21584-1] c 25 N92-33029

RADIATION SPECTRA
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041

RADIATION THERAPY
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

RADIATION TOLERANCE
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979

Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607

Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513

Radiation hardening of MOS devices by boron — for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730

Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332

Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875

RADIATIVE HEAT TRANSFER
Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459

Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035

Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641

Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081

Apparatus and method for heating a material in a transparent ampoule — crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220

RADIATORS
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046

Optically-switched submillimeter-wave oscillator and radiator
[NASA-CASE-NPO-18547-1-CU] c 33 N94-17324

RADIO ANTENNAS
Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521

VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614

Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979

Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365

Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N89-11961

Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

RADIO ASTRONOMY
Millimeter wave radiometer for radio astronomy Patent
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- Non-destructive method for applying and removing instrumentation on helicopter rotor blades
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- Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
- ROTOR BLADES (TURBOMACHINERY)**
- Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
- Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
- Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
- Supersonic fan blading — noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
- Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116
- Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148
- Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
- Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
- Tuned mass damper for integrally bladed turbine rotor
[NASA-CASE-MFS-28697-1] c 37 N94-29353

ROTOR LIFT

ROTOR LIFT

Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847

ROTOR SPEED

Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904

ROTORS

Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00085] c 28 N70-39895
Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Detent servo motor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
Magnetic field control — electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631
Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508
Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608
Superconducting bearings with levitation control configurations
[NASA-CASE-GSC-13346-1] c 37 N92-29099
Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N94-10669
System and method for cancelling expansion waves in a wave rotor
[NASA-CASE-LEW-15218-1] c 34 N94-20588
Rotary blood pump
[NASA-CASE-MSC-22424-1] c 37 N94-29370
Method for cancelling expansion waves in a wave rotor
[NASA-CASE-LEW-15218-2] c 34 N94-29740

RUBBER

Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228
Formulated plastic separators for soluble electrode cells — rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
Method and apparatus for cleaning rubber deposits from airport runways and roadways
[NASA-CASE-LAR-14483-1] c 31 N93-22035

RUBBER COATINGS

Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562

RUBY

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

RUBY LASERS

Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440

RUNWAY ALIGNMENT

Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619

RUNWAY CONDITIONS

Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242

RUNWAY LIGHTS

Runway light Patent
[NASA-CASE-XLA-00119] c 11 N70-33329
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

RUNWAYS

Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N91-31120

RUPTURING

Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540

S

S WAVES

Jet mixer noise suppressor using acoustic feedback
[NASA-CASE-LEW-15170-1] c 71 N93-28953

SABOT PROJECTILES

Hypervelocity gun — using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

SAFETY

Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745

SAFETY DEVICES

Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335
Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
Totally confined explosive welding — apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982
Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863

SAFETY FACTORS

Safety flywheel — using flexible materials energy storage
[NASA-CASE-HON-10888-1] c 44 N79-14527
Airborne rescue system
[NASA-CASE-ARC-11909-1] c 03 N91-31113

SAHA EQUATIONS

Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431

SALT BATHS

Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311

SAMARIUM

Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292

SAMPLERS

Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
Automated syringe sampler — remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

SAMPLES

Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217

SAMPLING

Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034
Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081
Rock sampling — apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068
Rock sampling — method for controlling particle size distribution
[NASA-CASE-XNP-09755] c 46 N74-23069
Apparatus for microbiological sampling — including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272

Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804
Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
Fluid sample collection and distribution system — qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190
Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595
High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N91-21157
Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755
High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N92-16241
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N92-21712
Extended task space control for robotic manipulators
[NASA-CASE-NPO-18902-1-CU] c 37 N93-28129
Two-stage gas measurement system
[NASA-CASE-LAR-14791-1] c 35 N93-31297

SANDWICH STRUCTURES

Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979
Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
Multiwall thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417
Core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N93-14700
Sandwiched structural panel having a bi-directional core structure
[NASA-CASE-MFS-28796-1] c 24 N93-19022

SAPPHIRE

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

SATELLITE ANTENNAS

Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
Microwave switching power divider — antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

SATELLITE ATTITUDE CONTROL

Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
Satellite despin device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396
Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324
Spacecraft attitude control method and apparatus
[NASA-CASE-HON-10439] c 21 N72-21624

- Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13844
- Combination automatic-starting electrical plasma torch and gas shutoff valve — for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426
- Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113
- Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152
- SATELLITE COMMUNICATION**
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
- Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
- Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
- Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523
- SATELLITE CONTROL**
Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
- Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380
- SATELLITE DESIGN**
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
- SATELLITE INSTRUMENTS**
Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
- SATELLITE NETWORKS**
Satellite interlace synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149
- SATELLITE OBSERVATION**
Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327
- SATELLITE ORBITS**
Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050
- SATELLITE ORIENTATION**
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
- Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676
- Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050
- Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172
- SATELLITE PERTURBATION**
Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747
- SATELLITE POWER TRANSMISSION**
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
- Method for remotely powering a device such as a lunar rover
[NASA-CASE-LAR-14789-1] c 37 N94-20587
- SATELLITE ROTATION**
Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
- Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
- Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050
- Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
- SATELLITE TELEVISION**
Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374
- SATELLITE TRACKING**
Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473
- Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
- Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
- A satellite-tracking millimeter-wave reflector antenna system for mobile satellite-tracking
[NASA-CASE-NPO-18772-1-CU] c 32 N93-28955
- SATELLITE TRANSMISSION**
Asynchronous, multiplexing, single line transmission and recovery data system — for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195
- SATELLITE-BORNE INSTRUMENTS**
Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
- SATELLITE-BORNE PHOTOGRAPHY**
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly — for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861
- Scanner — photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465
- SATURABLE REACTORS**
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
- Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681
- SATURATION**
Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747
- SAWS**
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
- Power saw
[NASA-CASE-MS-21469-1] c 37 N91-31655
- SAWTOOTH WAVEFORMS**
Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675
- SCALE MODELS**
Improved ceramic slip casting technique — application to aircraft model fabrication
[NASA-CASE-LAR-14471-1] c 27 N94-20377
- SCANNERS**
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
- Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
- Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
- Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
- Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
- Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
- Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
- Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
- Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857
- Electronically scanned pressure sensor module with in situ calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
- Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
- Scanner — photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465
- Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MS-18627-1] c 74 N82-30071
- Scanning seismic intrusion detection method and apparatus — monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272
- Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
- Two-dimensional scanner apparatus — flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
- Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
- Programmable scan/read circuitry for charge coupled device imaging detectors — spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
- Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769
- Display system employing acousto-optic tunable filter
[NASA-CASE-NPO-18736-1-CU] c 74 N94-15933
- Suspension system for gimbal supported scanning payloads
[NASA-CASE-MFS-28817-1] c 35 N94-29358
- SCANNING**
Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
- Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189
- Position determination systems — using orbital antenna scan of celestial bodies
[NASA-CASE-MS-12593-1] c 17 N76-21250
- Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
- System and method for character recognition
[NASA-CASE-NPO-11337-1] c 74 N81-19896
- SCATTERING CROSS SECTIONS**
Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
- Method and apparatus for sensor fusion
[NASA-CASE-MS-21334-1] c 32 N91-25317
- SCENE ANALYSIS**
Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
- SCHLIEREN PHOTOGRAPHY**
System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856
- SCHMIDT CAMERAS**
Cooled echelle grating spectrometer — for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635
- SCHMIDT TELESCOPES**
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
- SCHOOLS**
Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205
- SCHOTTKY DIODES**
High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526
- Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
- Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528
- Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
- Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
- Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947
- Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
- GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
- Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N91-21434
- Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197
- SCIENTIFIC SATELLITES**
Nano-G research laboratory for a spacecraft
[NASA-CASE-GSC-13197-1] c 18 N91-27201
- SCOOPS**
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
- SCORING**
Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
- SCRAMBLING (COMMUNICATION)**
Random digital encryption secure communication system
[NASA-CASE-MS-16462-1] c 32 N82-31583
- SCREWS**
Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635
- Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
- Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304
- Spine screw autochanger
[NASA-CASE-GSC-13435-1] c 37 N93-29505
- Three point lead screw positioning apparatus for a cavity tuning plate
[NASA-CASE-LEW-15216-1] c 37 N94-20375
- Spine screw multiple rotations mechanism
[NASA-CASE-GSC-13452-1] c 37 N94-23078
- Split spine screw
[NASA-CASE-GSC-13434-1] c 37 N94-23082
- SCRUBBERS**
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
- Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174

SEA ICE

A technique for breaking ice in the path of a ship
[NASA-CASE-LAR-10815-1] c 16 N72-22520

SEA STATES

Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667

SEA SURFACE TEMPERATURE

Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723

SEALERS

Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344

Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974

Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006

Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710

Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MFS-22355-1] c 23 N76-15268

High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

Glove attachment
[NASA-CASE-MSC-21632-1] c 54 N92-34210

Sealing

Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362

Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051

Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974

Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022

Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256

Valve seat
[NASA-CASE-NPO-10606] c 15 N72-25451

Ampoule sealing apparatus and process — for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633

Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689

High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751

Centrifugal clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731

Probe insertion apparatus with inflatable seal
[NASA-CASE-LEW-14965-1] c 37 N91-13732

O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N91-21175

Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542

Helmet of a laminate construction of polycarbonate and polysulfone polymeric material
[NASA-CASE-MSC-21503-1] c 27 N92-10091

Thruster sealing system and apparatus
[NASA-CASE-MSC-21898-1] c 37 N93-14702

Method of applying a thermal barrier coating system to a substrate
[NASA-CASE-LEW-15020-2] c 24 N93-14706

SEALS (STOPPERS)

Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320

Flexible seal for valves Patent
[NASA-CASE-XLE-00101] c 15 N70-33376

Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087

Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577

Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570

Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133

Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294

Spiral groove seal — for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125

Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063

High speed, self-acting shaft seal — for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631

Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482

Counter pumping debris excluder and separator — gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090

Composite seal for turbomachinery — backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318

Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474

Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475

Fluid pressure balanced seal
[NASA-CASE-XGS-01286-1] c 37 N79-33469

Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400

Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658

Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711

Thermal barrier pressure seal — shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363

Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442

Surface conforming thermal/pressure seal — tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408

Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540

Continuous self-locking spiral wound seal — for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490

Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674

Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453

Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744

Method of fabricating an abrasible gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957

Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978

Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786

High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751

Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608

High-temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N91-27560

High temperature, flexible, fiber-preform seal
[NASA-CASE-LEW-15085-1] c 37 N92-22043

Thruster sealing system and apparatus
[NASA-CASE-MSC-21898-1] c 37 N93-14702

Check valve with poppet damping mechanism
[NASA-CASE-MSC-21903-1] c 37 N94-10655

Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N94-10669

High-temperature, bellows hybrid seal
[NASA-CASE-LEW-15570-1] c 37 N94-35373

SEAMS (JOINTS)

Traveling sealer for contoured table Patent
[NASA-CASE-XLA-01494] c 15 N71-24164

Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623

Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301

Chamber free fusion welding root side purging method and apparatus
[NASA-CASE-MFS-28832-1] c 26 N94-29380

SEARCHING

Dynamic pattern matcher using incomplete data
[NASA-CASE-MSC-21415-1-SB] c 61 N93-18858

SEAT BELTS

Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915

SEATS

Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228

Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394

Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982

Hydraulic lifting device
[NASA-CASE-SSC-00008-1] c 37 N91-13733

Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747

Passive zero-gravity leg restraint
[NASA-CASE-ARC-11882-1-CU] c 54 N93-14713

SECONDARY EMISSION

Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

SECONDARY FLOW

Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N92-28752

SECTORS

Journal Bearings
[NASA-CASE-LEW-11076-2] c 37 N74-32921

SECURITY

Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559

Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299

Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

Scanning seismic intrusion detection method and apparatus — monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

SEEDS

Device for mechanically stabilizing web ribbon buttons during growth initiation
[NASA-CASE-NPO-17074-2-CU] c 76 N92-21499

SEEPAGE

Flow rate logging seepage meter
[NASA-CASE-LAR-14835-1] c 35 N93-19328

SEGMENTS

Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597

Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N92-22034

Method and apparatus for phasing segmented mirror arrays
[NASA-CASE-NPO-18095-1-CU] c 74 N92-29122

Segmented ion thruster
[NASA-CASE-NPO-18192-1-CU] c 20 N94-20496

SEISMIC WAVES

Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794

Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679

Underwater seismic source — for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555

SEISMOGRAPHS

Scanning seismic intrusion detection method and apparatus — monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

SELECTORS

Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777

Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862

SELF ADAPTIVE CONTROL SYSTEMS

Self-actuating heat switches for redundant refrigeration systems
[NASA-CASE-NPO-17085-1-CU] c 31 N89-12785

SELF ALIGNMENT

Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238

Electrical self-aligning connector — orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423

SELF ERECTING DEVICES

Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135

Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296

Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676

Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579

Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102

Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658

Foldable self-erecting joint
[NASA-CASE-MSC-20635-1] c 18 N87-14373

Self-deploying photovoltaic power system
[NASA-CASE-LEW-15308-1] c 44 N94-20196

SELF FOCUSING

Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

SELF LUBRICATING MATERIALS

- Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
- Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
- Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482

SELF LUBRICATION

- Method of making bearing materials — self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
- Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585

SELF MANEUVERING UNITS

- Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336
- Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585

SELF PROPAGATION

- Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291

SELF SEALING

- Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
- Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
- Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573

SELF TESTS

- Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
- Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N93-22032

SEMICONDUCTING FILMS

- Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-3] c 76 N93-17413

SEMICONDUCTOR DEVICES

- Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
- Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
- A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
- Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
- Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
- Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
- Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
- Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
- Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
- Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
- Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892
- Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899
- Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672
- Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
- Office gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
- Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
- Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199
- Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
- Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
- Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
- Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469

Process for fabricating SiC semiconductor devices

- [NASA-CASE-LEW-12094-1] c 76 N76-25049
- Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390
- Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
- Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650
- Electrical power generating system — for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
- Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
- Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
- Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
- Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
- Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
- Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922
- Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
- Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518
- Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-1] c 76 N91-26966
- Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-3] c 76 N93-17413
- Semiconductor cooling apparatus
[NASA-CASE-LEW-14162-3] c 24 N93-29614
- Method for anisotropic etching in the manufacture of semiconductor devices
[NASA-CASE-MSC-21631-1] c 75 N94-20491

SEMICONDUCTOR DIODES

- Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
- Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551
- Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528

SEMICONDUCTOR JUNCTIONS

- Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
- Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
- Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
- High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
- Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
- Method of measuring field tunneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
- Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
- Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N81-27614

SEMICONDUCTOR LASERS

- Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588
- Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N91-21871
- Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N93-13418
- Self-collimated unstable resonator semiconductor laser
[NASA-CASE-NPO-18386-1-CU] c 36 N93-18277
- Laser with optically driven Q-switch
[NASA-CASE-NPO-18470-1-CU] c 36 N94-15932

SEMICONDUCTORS (MATERIALS)

- Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460
- System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
- High efficiency multivibrator Patent
[NASA-CASE-XAC-00942] c 10 N71-16042

Method of making impurity-type semiconductor electrical contacts Patent

- [NASA-CASE-XMF-01016] c 26 N71-17818
- Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043
- Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
- Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
- Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
- Vapor deposition apparatus — semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192
- Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
- Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
- Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286
- Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
- Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
- Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923
- Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760
- Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882
- Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286
- Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
- Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
- Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545
- Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120
- Sub-Kelvin resistance thermometer
[NASA-CASE-GSC-13406-1] c 35 N92-33614
- INAS hole-immobilized doping superlattice long-wave-infrared detector
[NASA-CASE-NPO-17880-1-CU] c 76 N93-11056
- Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N93-13418
- Method for producing a hybridization of detector array and integrated circuit for readout
[NASA-CASE-NPO-18062-1-CU] c 33 N94-10656
- Monolithic in-based III-V compound semiconductor focal plane array cell with single stage CCD output
[NASA-CASE-NPO-18978-1-CU] c 33 N94-29488
- Epitaxial heterojunctions of oxide semiconductors and metals on high temperature superconductors
[NASA-CASE-NPO-18483-1-CU] c 76 N94-29501
- InP solar cell with window layer
[NASA-CASE-LEW-15606-1] c 44 N94-35230

SENSITIVITY

- Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
- Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836

SENSITOMETRY

- Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720

SENSORS

- Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
- Medical subject monitoring systems — multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
- Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
- Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-3] c 35 N93-14714
- System for memorizing maximum values
[NASA-CASE-MSC-21922-1] c 35 N93-14841
- Optical fiber strain sensor with improved linearity
[NASA-CASE-LAR-14857-1-SB] c 74 N93-19374

SENSORY PERCEPTION

- Multiple layer dielectrics, hot film sensors, and methods of producing same
[NASA-CASE-LAR-14591-1] c 35 N93-19493
- Method and apparatus for determination of material residual stress
[NASA-CASE-GSC-13451-1] c 39 N93-20118
- Optical fibers and Fused sensors having improved power efficiency and methods of producing same
[NASA-CASE-LAR-14525-1-CU] c 74 N94-20378
- ### SENSORY PERCEPTION
- Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013
- ### SEPARATED FLOW
- Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
- Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
- Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
- Flow separation detector
[NASA-CASE-ARC-11046-1] c 35 N78-14364
- Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534
- Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168
- Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-2-SB] c 34 N91-31596
- Stall departure resistance enhancer
[NASA-CASE-LAR-14221-1] c 06 N93-19023
- ### SEPARATION
- Acoustophoresis method and apparatus
[NASA-CASE-LAR-13388-1] c 25 N92-33611
- Acoustophoresis separation method
[NASA-CASE-LAR-13388-2] c 25 N93-20570
- ### SEPARATORS
- Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
- Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202
- Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
- Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
- Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079
- Water separating system Patent
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Closed loop spray cooling apparatus — for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237

Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492

Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283

Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255

Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689

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[NASA-CASE-MFS-25962-1] c 09 N89-25242

Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562

Sprayable lightweight ablative coating
[NASA-CASE-MFS-28372-1] c 27 N92-16123

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Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825

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[NASA-CASE-LEW-11981-2] c 34 N79-20336

Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588

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Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546

Multipath noise reduction spread spectrum signals
[NASA-CASE-NPO-18970-1-CU] c 32 N93-28126

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Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809

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Bellville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504

Multiple Bellville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225

Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713

Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974

Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391

Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417

Natural turbulence electrical power generator — using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834

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[NASA-CASE-MFS-25678-1] c 37 N84-11497

Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492

Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970

Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827

Mechanical energy absorber
[NASA-CASE-MSC-22111-1] c 37 N94-15966

Manufacturing methods for machining spring ends parallel at loaded length
[NASA-CASE-MFS-28767-1] c 31 N94-29379

Variable stiffness torsion springs
[NASA-CASE-MFS-28930-1] c 70 N94-36782

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[NASA-CASE-ERC-10120] c 26 N69-33482

Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487

Method and apparatus for sputtering utilizing an aperture electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569

Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269

Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684

Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455

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[NASA-CASE-LEW-13169-1] c 26 N82-29415

Ion sputter textured graphite — anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117

Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170

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[NASA-CASE-LEW-13837-1] c 24 N84-22695

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[NASA-CASE-LEW-13107-2] c 52 N84-23095

Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565

Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267

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[NASA-CASE-MSC-20036-1] c 76 N85-33826

Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458

Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160

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[NASA-CASE-XNP-01306-2] c 09 N71-24596

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[NASA-CASE-XGS-04768] c 08 N71-19437

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[NASA-CASE-LEW-13506-1] c 37 N85-33490

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[NASA-CASE-XGS-01971] c 15 N71-15922

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[NASA-CASE-MFS-28282-1] c 76 N88-29602

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[NASA-CASE-LEW-14170-1] c 37 N86-25790

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[NASA-CASE-GSC-12761-1] c 74 N86-32266

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[NASA-CASE-GSC-13173-1] c 33 N90-23635

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[NASA-CASE-LEW-15027-1] c 27 N91-13566

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[NASA-CASE-NPO-17625-1-CU] c 34 N92-21724

Enhanced fatigue and retention in ferroelectric thin film memory capacitors by post-top electrode anneal treatment
[NASA-CASE-NPO-18551-1-CU] c 33 N93-17277

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Leading edge flap system for aircraft control augmentation
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[NASA-CASE-MFS-21455-1] c 35 N74-15146

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[NASA-CASE-GSC-11077-1] c 02 N73-13008

Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004

Radiation hardening of MOS devices by boron — for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730

Arc control in compact arc lamps
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Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442

Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

Stabilization and oscillation of an acoustically levitated object
[NASA-CASE-NPO-16896-1-CU] c 71 N89-13236

Device for mechanically stabilizing web ribbon buttons during growth initiation
[NASA-CASE-NPO-17074-2-CU] c 76 N92-21499

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[NASA-CASE-XMS-03252] c 15 N71-10658

Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175

Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425

Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323

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[NASA-CASE-XMF-08523] c 31 N71-20396

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[NASA-CASE-XMF-00641] c 31 N70-36410

Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422

Apparatus for automatically stabilizing the attitude of a nonrigid vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873

Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006

Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460

Apparatus and method for improving spin recovery on aircraft
[NASA-CASE-LAR-14747-1] c 08 N94-20556

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Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986

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[NASA-CASE-LAR-13989-1] c 35 N91-13694

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[NASA-CASE-MFS-21675-1] c 25 N74-33378

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[NASA-CASE-XLA-02854] c 15 N69-27490

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[NASA-CASE-XLA-00791] c 03 N70-39930

Quick release separation mechanism Patent
[NASA-CASE-XLA-01441] c 15 N70-41679

Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582

Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687

Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874

Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008

Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663

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[NASA-CASE-MSC-11849-1] c 15 N72-22488

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[NASA-CASE-MSC-20543-1] c 18 N84-22610

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Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692

Stagnation pressure probe — for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878

Probe shapes that measure time-averaged streamwise momentum and cross-stream turbulence intensity
[NASA-CASE-ARC-11934-1] c 34 N94-23077

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Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156

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[NASA-CASE-LAR-11649-1] c 51 N77-27677

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Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443

Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130

Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515

Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171

Moving body velocity arresting line — stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601

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Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-3] c 31 N88-29052

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[NASA-CASE-MSC-21776-1] c 31 N92-33612

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Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491

Ultrasonic angle beam standard reflector — ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276

STANDARDS

Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348

Ultrasonic angle beam standard reflector — ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276

A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253

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Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767

Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416

Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086

System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516

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[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752

Motion measurement of acoustically levitated object
[NASA-CASE-NPO-18191-1-CU] c 09 N93-24601

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Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856

Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678

Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771

Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642

Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157

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[NASA-CASE-GSC-11188-2] c 21 N73-19630

Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-32320

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[NASA-CASE-GSC-11188-3] c 74 N74-20008

Star scanner — with a reticle with a pair of slits having differing separation
[NASA-CASE-GSC-11569-1] c 89 N74-30886

Programmable scan/read circuitry for charge coupled device imaging detectors — spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247

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Resonant waveguide stark cell — using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245

Stark-effect modulation of CO₂ laser with NH₂D
[NASA-CASE-NPO-11945-1] c 36 N76-18427

Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015

Stark effect spectrophone for continuous absorption spectra monitoring — a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159

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Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540

Motor run-up system — power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524

Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360

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Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599

Arcket power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939

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[NASA-CASE-LAR-13440-1] c 71 N87-21653

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[NASA-CASE-ARC-11245-1] c 28 N82-18401

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[NASA-CASE-XNP-08680] c 14 N71-22995

Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489

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[NASA-CASE-XMF-00663] c 08 N71-18752

Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470

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Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781

Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878

Static feed water electrolysis subsystem development
[NASA-CASE-MSC-21577-1-SB] c 25 N91-23271

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Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824

Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925

Static pressure probe
[NASA-CASE-LAR-11552-1] c 35 N76-14429

Static pressure orifice system testing method and apparatus
[NASA-CASE-LAR-12269-1] c 35 N80-18358

Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841

Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N92-21586

Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N94-10669

Probe systems for measuring static pressure and turbulence intensity in fluid streams
[NASA-CASE-ARC-11935-1] c 34 N94-23306

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[NASA-CASE-XLA-03132] c 31 N71-22969

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[NASA-CASE-MFS-20642] c 14 N72-21407

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[NASA-CASE-MSC-16000-1] c 37 N78-24544

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Nickel base alloy — for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280

Natural turbulence electrical power generator — using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834

Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681

Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038

Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608

Rotary blood pump
[NASA-CASE-MSC-22424-1] c 37 N94-29370

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Steady state thermal radiometers
[NASA-CASE-MFS-21108-1] c 34 N74-27861

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[NASA-CASE-SSC-00006-1] c 35 N91-13691

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[NASA-CASE-LEW-13609-1] c 25 N90-11824

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[NASA-CASE-GSC-10361-1] c 18 N72-23581

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Magneto acoustic emission apparatus for testing materials for embrittlement
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Method and apparatus for using magneto-acoustic remanence to determine embrittlement
[NASA-CASE-LAR-13817-5] c 39 N92-28757

Magnetic remanence method and apparatus to test materials for embrittlement
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[NASA-CASE-ERC-10046] c 10 N71-18722

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[NASA-CASE-XNP-02389] c 07 N71-28900

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[NASA-CASE-GSC-11446-1] c 33 N74-20860

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Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645

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Radiant energy intensity measurement system Patent
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Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348

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[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809

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[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676

Near real-time stereo vision system
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Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086

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[NASA-CASE-NPO-13313-1] c 54 N75-27761

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Growth of III-V films by control of MBE growth front stoichiometry
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[NASA-CASE-XMS-06767-1] c 14 N71-20435
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[NASA-CASE-NPO-13237-1] c 44 N76-18641
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[NASA-CASE-LEW-12358-1] c 44 N79-17313
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Secondary Li battery incorporating 12-Crown-4 ether
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[NASA-CASE-LAR-10373-1] c 18 N71-26155
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
Method for retarding dye fading during archival storage of developed color photographic film — inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

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[NASA-CASE-XNP-00612] c 11 N70-38182
Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285
Zero gravity shadow shield aligner
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[NASA-CASE-MFS-12827] c 14 N71-17656
Dual strain gage balance system for measuring light loads
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[NASA-CASE-XNP-09205] c 14 N71-17657
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[NASA-CASE-XMF-04680] c 15 N71-19489
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[NASA-CASE-XGS-04478] c 14 N71-24233
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[NASA-CASE-NPO-13423-1] c 33 N75-31329
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[NASA-CASE-LAR-11263-1] c 35 N75-33369
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Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
Photomechanical transducer
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[NASA-CASE-FRC-11068-1] c 35 N84-12443
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[NASA-CASE-WLP-10055-1] c 35 N84-28015
Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
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[NASA-CASE-WLP-10055-2] c 35 N85-21598
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[NASA-CASE-LAR-13797-1] c 35 N88-30108
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Compensated high temperature strain gage
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[NASA-CASE-MSC-21752-1] c 54 N94-20194

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Optical fiber strain sensor with improved linearity
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Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393
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[NASA-CASE-GSC-13451-1] c 39 N93-20118

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- Method of inhibiting stress corrosion cracks in titanium alloys Patent
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Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616

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- Shear sensitive monomer-polymer laminate structure and method of using same
[NASA-CASE-LAR-14654-1-CU] c 39 N93-29613

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- Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
Self-balancing strain gage transducer Patent
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[NASA-CASE-LAR-11825-1] c 35 N77-22449
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[NASA-CASE-LAR-12016-1] c 39 N78-15512
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[NASA-CASE-LAR-13440-1] c 71 N87-21653
Shear sensitive monomer-polymer laminate structure and method of using same
[NASA-CASE-LAR-14654-1-CU] c 39 N93-29613
Method of determining shear stress employing a monomer-polymer laminate structure
[NASA-CASE-LAR-14654-2] c 39 N94-23308

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- Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
Strain arrestor plate for fused silica tile — bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Fixture for environmental exposure of structural materials under compression load
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[NASA-CASE-XMF-06589] c 05 N71-23159

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- Fastener stretcher
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[NASA-CASE-LEW-15263-2] c 24 N94-15929

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[NASA-CASE-MSC-19442-1] c 74 N77-10899

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- Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857
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Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
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Releasable clamping apparatus
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Cable suspended windmill
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Hybrid butterfly valve
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Bio-reactor chamber
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High-pressure promoted combustion chamber
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Robotic tool change mechanism
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Mechanized fluid connector and assembly tool system with ball detents
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Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17814-1-CU] c 39 N93-24596

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Optical alignment system Patent
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[NASA-CASE-XLA-01807] c 15 N71-10799

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Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457

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Folding structure fabricated of rigid panels
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Strain arrestor plate for fused silica tile — bonding of thermal insulation to metallic plates or structural parts
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Mechanical end joint system for structural column elements
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Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794

Vibrating structure displacement measuring instrument Patent
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Active notch filter network with variable notch depth, width and frequency
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Method and apparatus for minimizing multiple degree of freedom vibration transmission between two regions of a structure
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Energy absorbing structure Patent Application
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Collapse structure for an antenna reflector
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[NASA-CASE-MFS-20299] c 15 N72-11392

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Liquid-immersible electrostatic ultrasonic transducer
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- [NASA-CASE-NPO-13862-1] c 35 N79-10391
- Texturing polymer surfaces by transfer casting — cardiovascular prosthesis
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- Method and apparatus for non-destructive evaluation of composite materials with cloth surface impressions
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- Meteorological balloon Patent
- [NASA-CASE-XMF-04163] c 02 N71-23007

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- [NASA-CASE-LEW-13174-1] c 34 N83-27144
- Multiwavelength pyrometer for gray and non-gray surfaces in the presence of interfering radiation
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- Metal etching composition
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- Method for preparation of a microporous structure with layered interstitial surface treatment
- [NASA-CASE-MSC-21487-2] c 24 N93-29023
- Microporous structure with layered interstitial surface treatment, and method and apparatus for preparation thereof
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- [NASA-CASE-NPO-11366] c 11 N73-26238
- Short range laser obstacle detector — for surface vehicles using laser diode array
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- [NASA-CASE-FRC-10051-1] c 35 N74-13129
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- [NASA-CASE-NPO-13772-1] c 35 N78-10429

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- [NASA-CASE-LAR-12650-2] c 52 N84-28389
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- [NASA-CASE-MSC-21509-1] c 74 N91-25840
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- Cutting head for ultrasonic lithotripsy
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- Suspended mass impact damper Patent
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Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088

Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834

Device for use in loading tension members — characterized by elongated elastic body
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Method of carbonizing polyacrylonitrile fibers
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Cryogenic insulation strength and bond tester
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[NASA-CASE-LAR-13633-1] c 27 N87-24575

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High temperature fiber optic microphone having a pressure-sensing reflective membrane under tensile stress
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Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
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Method and apparatus for tensile testing of metal foil
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Device for tensioning test specimens within an hermetically sealed chamber
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Method and apparatus for gripping uniaxial fibrous composite materials
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Device for measuring hole elongation in a bolted joint
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Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967

- Furnace for tensile/fatigue testing
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- TENSION**
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
Apparatus for elevated temperature compression or tension testing of specimens
[NASA-CASE-LAR-14775-1] c 39 N92-30099
- TENSORS**
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- TERMINAL GUIDANCE**
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[NASA-CASE-XFR-00756] c 02 N71-13421
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[NASA-CASE-FRC-10049-1] c 04 N74-13420
Terminal guidance sensor system — space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
- TERNARY SYSTEMS**
Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
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[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
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[NASA-CASE-XMF-01174] c 02 N70-41589
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- TERRAIN ANALYSIS**
Surface roughness measuring system — synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
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[NASA-CASE-XAC-05333] c 11 N71-22875
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[NASA-CASE-XMS-02930] c 11 N71-23042
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[NASA-CASE-KSC-10126] c 11 N71-24985
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[NASA-CASE-KSC-10198] c 11 N71-28629
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
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[NASA-CASE-MFS-23299-1] c 39 N77-28511
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413
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[NASA-CASE-MSC-21729-1] c 34 N92-16241
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[NASA-CASE-XMS-05454-1] c 07 N71-12391
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[NASA-CASE-XKS-06250] c 14 N71-15600
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[NASA-CASE-XLE-01399] c 33 N71-15625
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[NASA-CASE-XNP-01659] c 14 N71-23039
Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
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[NASA-CASE-XMF-08804] c 09 N71-24717
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[NASA-CASE-XLA-08254] c 14 N71-26161
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[NASA-CASE-XKS-10543] c 07 N71-26292
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[NASA-CASE-MSC-15158-1] c 14 N72-17325
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- Burn rate testing apparatus
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[NASA-CASE-KSC-10730-1] c 14 N73-32318
Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323
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Anti-buckling fatigue test assembly — for subjecting metal specimen to tensile and compressive loads at constant temperature
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[NASA-CASE-KSC-10750-1] c 35 N75-12270
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[NASA-CASE-MFS-22671-2] c 35 N77-17426
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[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161
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[NASA-CASE-LAR-13629-1] c 09 N91-14356
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[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936
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[NASA-CASE-LAR-13817-5] c 39 N92-28757
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[NASA-CASE-LAR-13817-2] c 39 N92-29155
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[NASA-CASE-MFS-28493-1] c 09 N94-10669
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[NASA-CASE-MSC-21487-4] c 31 N94-35445
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[NASA-CASE-LAR-15003-1] c 09 N94-36826
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[NASA-CASE-XLE-00252] c 11 N70-34844
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[NASA-CASE-XLE-00335] c 14 N70-35368
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[NASA-CASE-XLA-01131] c 14 N71-10774
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[NASA-CASE-XNP-03578] c 11 N71-23030
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[NASA-CASE-LAR-10774] c 10 N71-13545
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[NASA-CASE-MFS-25717-1] c 35 N84-33768
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[NASA-CASE-MFS-23564-1] c 15 N78-25119
- TETHERING**
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[NASA-CASE-XLA-02332] c 32 N71-17609
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[NASA-CASE-XMS-10993] c 15 N71-28936
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[NASA-CASE-MSC-21967-1] c 37 N94-23822
- TETHERLINES**
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[NASA-CASE-MSC-13512-1] c 15 N72-22485
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[NASA-CASE-MFS-23564-1] c 15 N78-25119
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[NASA-CASE-MSC-20475-1] c 37 N87-17037
- TETRAETHYL ORTHOSILICATE**
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[NASA-CASE-MSC-18737-1] c 24 N83-13171
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Metal containing polymers from cyclic tetrameric phenylphosphonitriamides Patent
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- TETRAZOLES**
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- TEXTILES**
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[NASA-CASE-LEW-13028-1] c 27 N82-33521
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[NASA-CASE-LEW-12919-1] c 24 N83-10117
- THERAPY**
Hyperthermia heating apparatus — cancer therapy
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- THERMAL COMFORT**
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- THERMAL CONDUCTIVITY**
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[NASA-CASE-XLE-00266] c 14 N70-34156
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[NASA-CASE-XGS-01052] c 14 N71-15992
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[NASA-CASE-MSC-12084-1] c 12 N71-17569
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[NASA-CASE-XNP-05524] c 33 N71-24876
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[NASA-CASE-GSC-11304-1] c 06 N72-21105
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[NASA-CASE-NPO-11942-1] c 33 N73-32818
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[NASA-CASE-LEW-12554-1] c 34 N78-18355
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[NASA-CASE-NPO-14253-1] c 32 N80-32605
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[NASA-CASE-GSC-12553-1] c 34 N83-28356
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[NASA-CASE-LEW-14162-1] c 34 N91-13668
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[NASA-CASE-NPO-17806-1-CU] c 31 N91-27385
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[NASA-CASE-XMS-02087] c 09 N70-41717
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- Thermal control coating Patent
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- Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
- Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566
- Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147
- Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160
- Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382
- Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237
- Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096
- Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355
- High temperature resistant cermet and ceramic compositions — for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
- Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180
- Lightweight electrically-powered flexible thermal laminate — made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331
- Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156
- High temperature glass thermal control structure and coating — for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
- Variable anodic thermal control coating
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- Metallic seal for thermal barrier coating systems
[NASA-CASE-LEW-15020-1] c 27 N91-15412
- Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N92-21725
- Method of applying a thermal barrier coating system to a substrate
[NASA-CASE-LEW-15020-2] c 24 N93-14706
- Oxidation resistant overlay coatings for low expansion substrates
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- Plasma sprayed ceramic thermal barrier coating for NiAl-based intermetallic alloys
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- Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
- Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

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- Crystal growth in a microgravity environment
[NASA-CASE-MFS-28473-1] c 76 N93-14707
- A method of making a single layer multi-color luminescent display
[NASA-CASE-LAR-14811-1] c 33 N93-20119

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- Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887

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- Electromagnetic radiation energy arrangement — coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
- Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
- Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N91-25296

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- Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
- Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
- Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
- Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759
- Electrostatically controlled heat shutter
[NASA-CASE-NPO-11942-1] c 33 N73-32818
- Solid medium thermal engine
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- Panel for selectively absorbing solar thermal energy and the method of producing said panel
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- Thermal energy storage system — operating on superheating of liquids
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- Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c 44 N77-32581
- Thermal energy transformer
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- Apparatus for improving the fuel efficiency of a gas turbine engine
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- Method for improving the fuel efficiency of a gas turbine engine
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- Thermal power transfer system using applied potential difference to sustain operating pressure difference
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- Selective emitters
[NASA-CASE-LEW-14731-1] c 44 N92-22037
- Pulse thermal energy transport/storage system
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- Thermally operated valve Patent
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- Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
- Thermal motor
[NASA-CASE-NPO-11283] c 09 N72-25260
- Glass-to-metal seals comprising relatively high expansion metals
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- Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285
- High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20840-1] c 34 N88-29132
- Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
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- Thermal compensating mount
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- Method of fabricating composite structures
[NASA-CASE-MFS-28390-1] c 24 N91-15333
- A process for preparing an assembly of an article and a polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
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- Flush mounting of thin film sensors
[NASA-CASE-LAR-14446-1] c 31 N92-33020
- Oxidation resistant overlay coatings for low expansion substrates
[NASA-CASE-LEW-15154-1] c 27 N93-19332
- Method for producing a hybridization of detector array and integrated circuit for readout
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- Carbon-carbon grid for ion engines
[NASA-CASE-NPO-19174-1-CU] c 20 N94-15876
- A process for preparing an assembly of an article and a soluble polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
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- Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276

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- Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935
- Insulating structure Patent
[NASA-CASE-XMF-00341] c 15 N70-33323
- Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583
- Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
- Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124
- Heat protection apparatus Patent
[NASA-CASE-XLA-00892] c 33 N71-17897
- Cryogenic insulation system Patent
[NASA-CASE-XLE-04222] c 23 N71-22881
- Insulation system Patent
[NASA-CASE-XLE-02647] c 18 N71-23658
- Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816
- Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351

- Isothermal cover with thermal reservoirs Patent
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- Fabric for micrometeoroid protection garment Patent
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- Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
- Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
- Intumescent composition, foamed product prepared therewith, and process for making same
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- Thermal control system for a spacecraft modular housing
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- Heater-mixer for stored fluids
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- Intumescent composition, foamed product prepared therewith and process for making same
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- High current electrical lead — for thermionic converters
[NASA-CASE-LEW-10950-1] c 33 N74-27683
- Structural heat pipe — for spacecraft wall thermal insulation system
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- Strain arrestor plate for fused silica tile — bonding of thermal insulation to metallic plates or structural parts
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- Auger attachment method for insulation — of spacecraft
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- Flexible pile thermal barrier insulator
[NASA-CASE-MSC-19568-1] c 34 N78-25350
- Thermal insulation attaching means — adhesive bonding of felt vibration insulators under ceramic tiles
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- Fibrous refractory composite insulation — shielding reusable spacecraft
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- Installing fiber insulation
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- Process for the preparation of polycarbonylphosphazenes — thermal insulation
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- Carbonylphosphazenes and their polymers — thermal insulation
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VARIABLE SWEEP WINGS

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- VLSI binary updown counter
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- Active notch filter network with variable notch depth, width and frequency
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VISIBLE SPECTRUM

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[NASA-CASE-XMS-09652-1] c 05 N71-26333

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Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001

Underwing compression vortex attenuation device
[NASA-CASE-LAR-14744-1] c 02 N94-10673

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[NASA-CASE-LAR-14744-1] c 02 N94-10673

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[NASA-CASE-XMF-04709] c 15 N71-15609

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[NASA-CASE-LAR-12045-1] c 34 N77-24423

Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433

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- Pressure rig for repetitive casting
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[NASA-CASE-ERC-10138] c 26 N71-14354
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- Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417

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[NASA-CASE-LAR-10545-1] c 09 N72-21244
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[NASA-CASE-NPO-13941-1] c 32 N79-10262
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[NASA-CASE-LAR-13901-2] c 52 N92-11621
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[NASA-CASE-MFS-29904-1] c 35 N93-29503

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- Bolt and nut evaluator
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[NASA-CASE-LAR-10365-1] c 05 N72-27102
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[NASA-CASE-LAR-11071-1] c 35 N75-19611
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[NASA-CASE-MSC-14640-1] c 54 N76-14804
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[NASA-CASE-MSC-18223-2] c 54 N84-11758

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- Sharps container
[NASA-CASE-MSC-21776-1] c 31 N92-33612

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- High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
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[NASA-CASE-NPO-13342-1] c 37 N76-16446
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[NASA-CASE-LAR-11361-1] c 44 N77-22607
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[NASA-CASE-LAR-11973-1] c 35 N78-27384
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[NASA-CASE-NPO-14126-1] c 44 N79-11470
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[NASA-CASE-MSC-21585-1] c 51 N91-31755
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[NASA-CASE-MFS-28485-1] c 35 N92-29135
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[NASA-CASE-MSC-21584-1] c 25 N92-33029
Method and apparatus for cleaning rubber deposits from airport runways and roadways
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- Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
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[NASA-CASE-MSC-20857-1] c 37 N87-17035

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[NASA-CASE-XLA-01552] c 07 N71-11284

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- Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
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- Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
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- Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
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[NASA-CASE-MSC-16777-1] c 51 N80-27067
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[NASA-CASE-ARC-11322-1] c 51 N83-28849
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[NASA-CASE-MSC-21589-1] c 54 N92-29137
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[NASA-CASE-XAC-00812] c 14 N71-15598
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[NASA-CASE-MSC-10960-1] c 03 N71-24718
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[NASA-CASE-ARC-10643-1] c 25 N75-12087
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[NASA-CASE-NPO-14340-1] c 45 N80-14579
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[NASA-CASE-ARC-10980-1] c 27 N80-23452
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[NASA-CASE-NPO-14001-1] c 27 N81-14076
Sewage sludge additive
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[NASA-CASE-NST-00007-1] c 45 N91-14662
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[NASA-CASE-MSC-21584-1] c 25 N92-33029
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[NASA-CASE-NPO-13862-1] c 35 N79-10391
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[NASA-CASE-ARC-11363-1] c 31 N87-16918

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- Natural turbulence electrical power generator --- using wave action or random motion
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- Distributed feedback acoustic surface wave oscillator
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- Method for canceling expansion waves in a wave rotor
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- Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140

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- Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567

WAVE FRONTS

- Feedback controlled optics with wavefront compensation
[NASA-CASE-NPO-18194-1-CU] c 74 N94-20305

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- Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
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[NASA-CASE-XMS-01315] c 09 N70-41675
Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
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[NASA-CASE-NPO-11133] c 10 N72-20223
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- Coupled cavity traveling wave tube with velocity tapering
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- Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559

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- Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822
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[NASA-CASE-GSC-10949-1] c 07 N71-28965

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- Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145

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- Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
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[NASA-CASE-NPO-15704-1] c 32 N85-34327
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[NASA-CASE-XGS-00131] c 09 N70-38995
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[NASA-CASE-XNP-01383] c 09 N71-10659
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[NASA-CASE-FRC-10010] c 10 N71-24862
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[NASA-CASE-MSC-12395] c 09 N72-25257
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[NASA-CASE-MSC-12428-1] c 10 N73-25240
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[NASA-CASE-MSC-14557-1] c 32 N76-16249
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[NASA-CASE-KSC-11018-1] c 33 N79-10337
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- Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148

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- High power microwave power divider Patent
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WAVEGUIDE WINDOWS

- Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808

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- Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10676
Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
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[NASA-CASE-ERC-10179] c 07 N72-20141
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[NASA-CASE-LAR-10513-1] c 07 N72-25170
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[NASA-CASE-LAR-10511-1] c 09 N72-29172
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[NASA-CASE-NPO-14254-1] c 36 N80-18372
Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
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[NASA-CASE-MSC-16800-1] c 32 N81-14187
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[NASA-CASE-LEW-12296-1] c 33 N82-26568
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[NASA-CASE-NPO-15401-1] c 32 N83-27085
Universal nondestructive mm-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552
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[NASA-CASE-NPO-18454-1-CU] c 33 N93-18285
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[NASA-CASE-NPO-18357-1-CU] c 74 N93-29848
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[NASA-CASE-ERC-10187] c 16 N69-31343
Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
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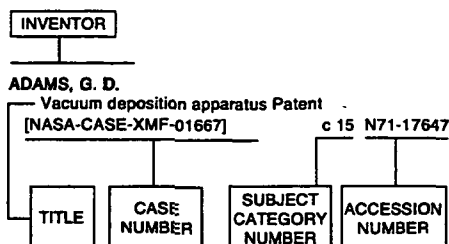
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BRITT, T. O.

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[NASA-CASE-KSC-11031-1] c 33 N79-11315

BRITZ, W. J.

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BROCKMAN, M. H.

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[NASA-CASE-NPO-14328-1] c 32 N80-18253

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[NASA-CASE-XLE-04787] c 03 N71-20492

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[NASA-CASE-LEW-11065-2] c 44 N76-14600

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[NASA-CASE-XMF-04367] c 09 N71-23545

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[NASA-CASE-XMS-09610] c 07 N71-24625

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[NASA-CASE-ARC-11322-1] c 51 N83-28849

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[NASA-CASE-LAR-14918-1] c 31 N94-15881
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[NASA-CASE-NPO-16021-1] c 33 N85-30187
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[NASA-CASE-NPO-17809-1-CU] c 33 N91-27478
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[NASA-CASE-MFS-22189-1] c 35 N75-19615
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[NASA-CASE-LAR-13963-1] c 76 N90-24150
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[NASA-CASE-LAR-10450-1] c 37 N74-27905
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[NASA-CASE-MFS-20645-1] c 37 N74-23070
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[NASA-CASE-MFS-22039-1] c 09 N75-12968
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[NASA-CASE-MFS-23225-1] c 52 N77-14735
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[NASA-CASE-MFS-23088-1] c 37 N77-23483
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[NASA-CASE-LAR-11213-1] c 35 N75-15014

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[NASA-CASE-LAR-13562-1] c 24 N90-25196
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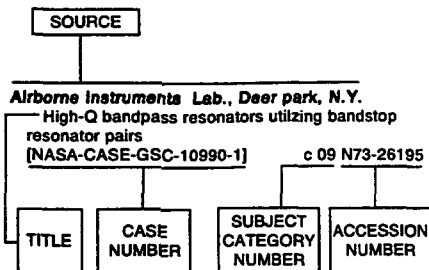
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[NASA-CASE-LEW-10393-1] c 17 N71-15468
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[NASA-CASE-XNP-09770] c 15 N71-20440
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[NASA-CASE-XMS-04201] c 14 N71-22990
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[NASA-CASE-XNP-06942] c 28 N71-23293
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[NASA-CASE-GSC-11074-1] c 14 N73-28489
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[NASA-CASE-GSC-11018-1] c 31 N73-30829
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[NASA-CASE-XMS-05894-1] c 15 N69-21924
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[NASA-CASE-MSC-10960-1] c 03 N71-24718
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[NASA-CASE-LAR-10270-1] c 32 N72-25877
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[NASA-CASE-MSC-13335-1] c 06 N72-31140
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[NASA-CASE-MSC-11072] c 54 N74-32546
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[NASA-CASE-LEW-12550-1] c 24 N77-19170
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[NASA-CASE-LEW-12830-1] c 07 N77-23106
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[NASA-CASE-LEW-12317-1] c 07 N78-17055
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[NASA-CASE-LEW-12390-1] c 07 N78-17056
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[NASA-CASE-LEW-12916-1] c 37 N78-17384
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[NASA-CASE-LEW-12452-1] c 07 N78-25089
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[NASA-CASE-LEW-12793-1] c 37 N79-11403

Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096

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[NASA-CASE-LEW-12378-1] c 07 N79-14097

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[NASA-CASE-LEW-12658-1] c 71 N79-14871

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[NASA-CASE-LEW-12971-1] c 07 N80-18039

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[NASA-CASE-LEW-13201-1] c 07 N81-14999

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[NASA-CASE-LEW-12907-2] c 07 N81-19115

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[NASA-CASE-LEW-12594-2] c 07 N81-19116

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[NASA-CASE-LEW-13189-1] c 07 N82-26293

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[NASA-CASE-LEW-14586-1] c 07 N83-31603

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[NASA-CASE-LEW-13142-1] c 07 N83-36029

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[NASA-CASE-MFS-21394-1] c 34 N74-27744

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 Large area projection liquid-crystal video display system with inherent grid pattern optically removed
 [NASA-CASE-NPO-18932-2-CU] c 74 N93-13711
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[NASA-CASE-NPO-18391-1-CU] c 20 N93-28424

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[NASA-CASE-NPO-18501-1-CU] c 27 N93-28426

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[NASA-CASE-NPO-18727-1-CU] c 62 N93-28427

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[NASA-CASE-NPO-18772-1-CU] c 32 N93-28955

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[NASA-CASE-NPO-18492-1-CU] c 63 N93-29176

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[NASA-CASE-NPO-17629-1-CU] c 60 N93-29608

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[NASA-CASE-NPO-18357-1-CU] c 74 N93-29848

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[NASA-CASE-NPO-18694-1-CU] c 33 N94-17325

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[NASA-CASE-MFS-20317] c 15 N73-13463

Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779

Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853

Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136

Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945

Thrust-isolating mounting
[NASA-CASE-MFS-21680-1] c 18 N74-27397

Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865

Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410

Phase-locked servo system
[NASA-CASE-MFS-22073-1] c 33 N75-13139

Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612

Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615

Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685

Device for use in loading tension members
[NASA-CASE-MFS-21488-1] c 14 N75-24794

McDonnell-Douglas Corp., Long Beach, CA.

Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630

McDonnell-Douglas Corp., Newport Beach, CA.

Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337

McDonnell-Douglas Corp., Santa Monica, CA.

Rocket nozzle test method Patent
[NASA-CASE-NPO-10311] c 31 N71-15643

Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107

Polymers of perfluorobutadiene and method of manufacture
[NASA-CASE-NPO-10863-2] c 06 N72-25152

Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252

Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions
[NASA-CASE-NPO-12122-1] c 24 N76-14203

Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228

McDonnell-Douglas Corp., Saint Louis, MO.

Thermally conductive polymers
[NASA-CASE-GSC-11304-1] c 06 N72-21105

Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278

Medical Sciences Research Foundation, San Francisco, CA.

Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270

Mellon Inst., Pittsburgh, PA.

Instrument for measuring torsional creep and recovery
Patent
[NASA-CASE-XLE-01481] c 14 N71-10781

Melpar, Inc., Falls Church, VA.

Television simulation for aircraft and space flight
Patent
[NASA-CASE-XFR-03107] c 09 N71-19449

Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086

Metcom, Inc., Salem, MA.

Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841

Methodist Hospital, Houston, TX.

Snap-in compressible biomedical electrode
[NASA-CASE-MS-14623-1] c 52 N77-28717

Microwave Electronics Corp., Palo Alto, CA.

Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550

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[NASA-CASE-XNP-06503] c 23 N71-29049

Microwave Research Corp., North Andover, MA.

Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365

Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278

Midwest Research Inst., Kansas City, MO.

Preparation of ordered poly(arylenesiloxane)/polymers
[NASA-CASE-XMF-10753] c 06 N71-11237

Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403

Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098

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Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935

Minneapolis-Honeywell Regulator Co., MN.

Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783

Modern Machine and Tool Co., Newport News, VA.

Means for accommodating large overstrain in lead wires
[NASA-CASE-LAR-10168-1] c 33 N74-22865

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Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910

Monsanto Research Corp., Dayton, OH.

Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis(perfluoroalkyleneoxyphthalic anhydrides)
[NASA-CASE-MFS-22356-1] c 23 N75-30256

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[NASA-CASE-MFS-22355-1] c 23 N76-15268

Motorola, Inc., Phoenix, AZ.

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[NASA-CASE-XMF-08665] c 10 N71-19467

Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229

Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654

Method and apparatus for quadrupole-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192

PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405

Motorola, Inc., Scottsdale, AZ.

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[NASA-CASE-MFS-14322] c 08 N71-18692

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[NASA-CASE-MS-13201-1] c 07 N71-28429

Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712

Quadrupole demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338

Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

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Gyrator employing field effect transistors
[NASA-CASE-MFS-21433] c 09 N73-20232

Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004

Optical data processing using paraboloidal mirror segments
[NASA-CASE-GSC-11296-1] c 23 N73-30666

Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391

High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088

Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946

Stagnation pressure probe
[NASA-CASE-LAR-11139-1] c 35 N74-32878

Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638

Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086

Method of preparing water purification membranes
[NASA-CASE-ARC-10643-1] c 25 N75-12087

Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732

Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654

Anti-gravity device
[NASA-CASE-MFS-22758-1] c 70 N75-26789

Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331

Integrable power gyrator
[NASA-CASE-MFS-22342-1] c 33 N75-30428

Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931

Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433

Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393

Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951

Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525

Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408

Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454

Length controlled stabilized mode-lock Nd:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499

Method of growing composites of the type exhibiting the Soret effect
[NASA-CASE-MFS-22926-1] c 24 N77-27187

Method and apparatus for splitting a beam of energy
[NASA-CASE-GSC-12083-1] c 73 N78-32848

Centrifuge mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418

Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549

Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081

Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612

Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348

Autonomous navigation system
[NASA-CASE-ARC-11257-1] c 04 N81-21047

Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272

Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174

Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505

Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378

Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991

Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322

Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745

Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361

Synthesis of 2,4,8,10-tetroxaspiro[5.5]undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187

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[NASA-CASE-ARC-11522-2] c 27 N85-34280

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[NASA-CASE-ARC-11424-1] c 27 N85-34281

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[NASA-CASE-ARC-11427-1] c 24 N86-19380

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[NASA-CASE-ARC-11405-2] c 27 N86-19455

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[NASA-CASE-XGS-02401] c 14 N69-27485

Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141

Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198

Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701

Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199

Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409

Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428

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[NASA-CASE-ERC-10283] c 16 N72-25485

Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437

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[NASA-CASE-ERC-10392] c 21 N73-14692

System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483

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[NASA-CASE-ERC-10439] c 02 N73-19004

Display system
[NASA-CASE-ERC-10350] c 14 N73-20474

Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432

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[NASA-CASE-HQN-10740-1] c 72 N74-19310

Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014

Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653

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[NASA-CASE-HQN-10542-1] c 74 N75-25706

Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040

Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251

Vapor deposition apparatus
[NASA-CASE-HQN-10462] c 25 N75-29192

Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473

Rechargeable battery which combats shape change of the zinc anode
[NASA-CASE-HQN-10862-1] c 44 N76-29699

System and method for tracking a signal source
[NASA-CASE-HQN-10880-1] c 17 N78-17140

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[NASA-CASE-HQN-10841-1] c 73 N78-19920

Cooling system for removing metabolic heat from an hermetically sealed space suit
[NASA-CASE-ARC-11059-1] c 54 N78-32721

Safety flywheel
[NASA-CASE-HQN-10888-1] c 44 N79-14527

Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468

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[NASA-CASE-HQN-10274-1] c 27 N82-29451

High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452

CORPORATE SOURCE

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Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HON-10328-2] c 27 N82-29454
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[NASA-CASE-HON-10595-1] c 27 N82-29455
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[NASA-CASE-XAR-03786] c 09 N69-21313
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[NASA-CASE-XAC-02407] c 14 N69-27423
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[NASA-CASE-XAC-08981] c 09 N69-39897
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[NASA-CASE-ARC-10176-1] c 15 N72-21464
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[NASA-CASE-ARC-10275-1] c 05 N72-22092
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[NASA-CASE-ARC-10263-1] c 14 N72-22438
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[NASA-CASE-ARC-10304-1] c 18 N73-26572
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[NASA-CASE-ARC-10463-1] c 09 N73-32111
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Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
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[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
Laser Doppler velocimeter multiplexer interface for
simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384
Fire and heat resistant laminating resin based on
maleimido and citraconimido substituted
1-(diorganooxyphosphonyl-methyl)-2,4-
and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-2] c 52 N89-16256
Space station architecture, module, berthing hub, shell
assembly, berthing mechanism and utility connection
channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266

Suitport extra-vehicular access facility
[NASA-CASE-ARC-11635-1] c 18 N90-16860

The 1-((diorganoxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133

Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

Some 1-(diorganoxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475

Three-dimensional laser velocimeter simultaneously detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340

Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357

Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591

Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520

Airborne rescue system
[NASA-CASE-ARC-11909-1] c 03 N91-31113

Etching method for photoresists or polymers
[NASA-CASE-ARC-11873-2] c 25 N91-31258

Toughened uni-piece fibrous insulation
[NASA-CASE-ARC-11888-1] c 24 N92-16026

Matching optics for Gaussian beams
[NASA-CASE-ARC-11892-1-SB] c 74 N92-16810

Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811

Boron-carbon-silicon polymers and ceramic and a process for the production thereof
[NASA-CASE-ARC-11891-2-SB] c 27 N92-34160

Passive zero-gravity leg restraint
[NASA-CASE-ARC-11882-1-CU] c 54 N93-14713

Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N94-20371

Probe shapes that measure time-averaged streamwise momentum and cross-stream turbulence intensity
[NASA-CASE-ARC-11934-1] c 34 N94-23077

Probe systems for measuring static pressure and turbulence intensity in fluid streams
[NASA-CASE-ARC-11935-1] c 34 N94-23306

Output optics for laser velocimeters
[NASA-CASE-ARC-11889-1-SB] c 74 N94-23309

Deployable video conference table
[NASA-CASE-ARC-11950-1] c 09 N94-23310

Ceramic silicon-boron-carbon fibers from organic silicon-boron-polymers
[NASA-CASE-ARC-11956-1-SB] c 27 N94-23311

Head related transfer function pseudo-stereophony
[NASA-CASE-ARC-11919-1-NP] c 71 N94-23312

System for improving measurement accuracy of transducer by measuring transducer temperature and resistance change using thermoelectric voltages
[NASA-CASE-ARC-12014-1] c 35 N94-29361

Boundary layer control device for duct silencers
[NASA-CASE-ARC-12030-1] c 71 N94-29362

Improved in-flow acoustic sensor
[NASA-CASE-ARC-12001-1] c 71 N94-29363

Multi-channel spatialization systems for audio signals
[NASA-CASE-ARC-12013-1-CU] c 32 N94-29364

Image-adapted visually weighted quantization matrices for digital image compression
[NASA-CASE-ARC-12015-1] c 60 N94-29375

Composite flexible blanket insulation
[NASA-CASE-ARC-11955-1-CU] c 24 N94-29509

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[NASA-CASE-ERC-10187] c 16 N69-31343

A method for the deposition of beta-silicon carbide by isoelectronic
[NASA-CASE-ERC-10120] c 26 N69-33482

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[NASA-CASE-ERC-10208] c 15 N70-10867

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[NASA-CASE-ERC-10072] c 09 N70-11148

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[NASA-CASE-ERC-10552] c 09 N71-12539

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[NASA-CASE-ERC-10019] c 16 N71-15551

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[NASA-CASE-ERC-10017] c 16 N71-15567

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[NASA-CASE-XER-07894] c 09 N71-18721

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[NASA-CASE-ERC-10075] c 09 N71-24800

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[NASA-CASE-ERC-10034] c 15 N71-24896

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[NASA-CASE-ERC-10090] c 21 N71-24948

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[NASA-CASE-ERC-10088] c 26 N71-25490

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[NASA-CASE-ERC-10032] c 10 N71-25900

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[NASA-CASE-ERC-10020] c 16 N71-26154

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[NASA-CASE-ERC-10022] c 15 N71-26635

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[NASA-CASE-ERC-10013] c 09 N71-26678

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[NASA-CASE-ERC-10113] c 09 N71-27053

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[NASA-CASE-ERC-10044-1] c 14 N71-27090

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[NASA-CASE-ERC-10098] c 09 N71-28618

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[NASA-CASE-ERC-10100] c 09 N71-33519

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[NASA-CASE-ERC-10248] c 14 N72-17323

Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747

Logarithmic function generator utilizing an exponentially varying signal in an inverse manner
[NASA-CASE-ERC-10267] c 09 N72-23173

Method and apparatus for limiting field emission current
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Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503

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[NASA-CASE-XFR-00181] c 21 N70-33279

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[NASA-CASE-XFR-00811] c 15 N70-36901

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[NASA-CASE-XFR-04147] c 11 N71-10748

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[NASA-CASE-FRC-10036] c 09 N72-22200

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[NASA-CASE-FRC-10060-1] c 14 N73-27379

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[NASA-CASE-FRC-10051-1] c 35 N74-13129

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[NASA-CASE-FRC-10072-1] c 33 N74-14939

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[NASA-CASE-GSC-12039-1] c 51 N77-22794

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[NASA-CASE-GSC-11571-1] c 36 N77-25499

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[NASA-CASE-GSC-11824-1] c 33 N77-26386

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[NASA-CASE-GSC-12058-1] c 74 N77-26942

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[NASA-CASE-GSC-12059-1] c 35 N77-27366

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[NASA-CASE-GSC-11063-1] c 37 N77-27400

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[NASA-CASE-GSC-12053-1] c 32 N77-28346

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[NASA-CASE-GSC-12017-1] c 32 N77-30308

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[NASA-CASE-GSC-12110-1] c 27 N77-32308

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[NASA-CASE-GSC-11998-1] c 34 N77-32413

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[NASA-CASE-GSC-12143-1] c 35 N77-32456

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[NASA-CASE-GSC-11839-3] c 60 N77-32731

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[NASA-CASE-GSC-11976-1] c 43 N78-10529

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[NASA-CASE-GSC-11839-2] c 60 N78-10709

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[NASA-CASE-XGS-03429] c 03 N69-21330

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[NASA-CASE-XGS-03865] c 14 N69-21363

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[NASA-CASE-XGS-02437] c 15 N69-21472

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[NASA-CASE-XGS-04999] c 09 N69-24317

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[NASA-CASE-GSC-10186] c 08 N71-33110

Combustion products generating and metering device
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Spray applicator for spraying coatings and other fluids in space
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Spillage detector for liquid chromatography systems
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Real-time garbage collection for list processing
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Infusion extractor
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Self-contained, single-use hose and tubing cleaning module
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Method and apparatus for measuring frequency and phase difference
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Processing circuit with asymmetry corrector and convolutional encoder for digital data
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Four-terminal electrical testing device
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Tapered, tubular polyester fabric
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Method and apparatus for measuring distance
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Method of forming dynamic membrane on stainless steel support
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Collet lock joint for space station truss
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Preloaded brake disc
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ARC length control for plasma welding
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Switched steerable multiple beam antenna system
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Binocular device for displaying numerical information in field of view [NASA-CASE-LAR-11782-1]	c 74	N77-20882	Volumetric direct nuclear pumped laser [NASA-CASE-LAR-12183-1]	c 36	N79-18307	Telescoping columns [NASA-CASE-LAR-12195-1]	c 31	N81-27324
Method of locating persons in distress [NASA-CASE-LAR-11390-1]	c 32	N77-21267	Wind tunnel [NASA-CASE-LAR-10135-1]	c 09	N79-21083	Helmet weight simulator [NASA-CASE-LAR-12320-1]	c 54	N81-27806
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Apparatus for determining thermophysical properties of test specimens [NASA-CASE-LAR-11883-1]	c 09	N77-27131	Seat cushion to provide realistic acceleration cues to aircraft simulator pilot [NASA-CASE-LAR-12149-2]	c 09	N79-31228	Wind tunnel supplementary Mach number minimum section insert [NASA-CASE-LAR-12532-1]	c 09	N82-11088
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TV fatigue crack monitoring system [NASA-CASE-LAR-11490-1]	c 39	N78-16387	CDS solid state phase insensitive ultrasonic transducer [NASA-CASE-LAR-12304-1]	c 35	N80-20559	Hot foil transducer skin friction sensor [NASA-CASE-LAR-12321-1]	c 35	N82-24470
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Metal matrix composite structural panel construction [NASA-CASE-LAR-12807-1]	c 24	N84-11214	Heat pipe cooled probe [NASA-CASE-LAR-12588-1]	c 34	N85-21568	Vibration-free Raman Doppler velocimeter [NASA-CASE-LAR-13268-1]	c 35	N87-14669
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Polyimides containing carbonyl and ether connecting groups
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Airfoil flutter model suspension system
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Oxygen diffusion barrier coating
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Miniature remote dead weight calibrator
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Tool and process for miniature explosive joining of tubes
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Magneto acoustic emission apparatus for testing materials for embrittlement
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- Ion thruster cathode Patent Application
[NASA-CASE-XLE-10814-1] c 28 N70-35422
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[NASA-CASE-XLE-00164] c 15 N70-36411
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[NASA-CASE-XLE-00170] c 15 N70-36412
- Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
- Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
- Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616
- Apparatus having coaxial capacitor structure for measuring fluid density Patent
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- Variable sweep aircraft wing Patent
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[NASA-CASE-XLE-00345] c 15 N70-38020
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- Method of making fiber reinforced metallic composites Patent
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- Penshape exhaust nozzle for supersonic engine Patent
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[NASA-CASE-XLE-00005] c 28 N70-39899
- High temperature spark plug Patent
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- Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
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- Apparatus for absorbing and measuring power Patent
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- Device for directionally controlling electromagnetic radiation Patent
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- Apparatus for increasing ion engine beam density Patent
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- Foldable conduit Patent
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- Method of making a regeneratively cooled combustion chamber Patent
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- Inductive liquid level detection system Patent
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- Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
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- Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577
- Method of making a silicon semiconductor device Patent
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- Metallic film diffusion for boundary lubrication Patent
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- Molecular beam velocity selector Patent
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- Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
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- Method and apparatus for making curved reflectors Patent
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- Method of making a diffusion bonded refractory coating Patent
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- Black-body furnace Patent
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- Method of igniting solid propellants Patent
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- Automatically deploying nozzle exit cone extension Patent
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- High temperature cobalt-base alloy Patent
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- Method of making a rocket motor casing Patent
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- Rocket motor casing Patent
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- Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B Patent
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- Method of improving the reliability of a rolling element system Patent
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- Process of casting heavy slips Patent
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- Thrust and direction control apparatus Patent
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- Linear magnetic brake with two windings Patent
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- Method of lubricating rolling element bearings Patent
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- Small plasma probe Patent
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- Combined electrolysis device and fuel cell and method of operation Patent
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- Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
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- Cryogenic insulation system Patent
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- Method for producing fiber reinforced metallic composites Patent
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- Automatic recording McLeod gauge Patent
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- High temperature ferromagnetic cobalt-base alloy Patent
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- Induction furnace with perforated tungsten foil shielding Patent
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- Alloys for bearings Patent
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- Shock tube powder dispersing apparatus Patent
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- Pneumatic oscillator Patent
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- Heat activated cell with alkali anode and alkali salt electrolyte Patent
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- Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
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- Ion beam deflector Patent
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- Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581
- Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059
- Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354
- Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
- Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171
- Solar cell assembly
[NASA-CASE-LEW-11549-1] c 44 N77-19571
- Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
- Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201
- Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
- Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c 33 N77-26385
- Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116
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- Bimetallic junctions
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- Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385
- Hydrostatic bearing support
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- Corneal seal device
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- Solar cell shingle
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- Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148
- Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
- Nickel base alloy
[NASA-CASE-LEW-12270-1] c 26 N77-32280
- Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
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[NASA-CASE-LEW-12164-1] c 36 N77-32478
- Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
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- Tantalum modified ferritic iron base alloys
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- Directionally solidified eutectic gamma-gamma nickel-base superalloys
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[NASA-CASE-LEW-12159-1] c 44 N78-19599
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[NASA-CASE-LEW-12081-1] c 28 N78-24365
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[NASA-CASE-LEW-12785-1] c 37 N78-24545
- Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
- Counter pumping debris excluder and separator
[NASA-CASE-LEW-11855-1] c 07 N78-25090
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- Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
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- Centilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418
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[NASA-CASE-LEW-12793-1] c 37 N79-11403
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[NASA-CASE-LEW-12819-1] c 44 N79-11467
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[NASA-CASE-LEW-12252-1] c 34 N79-13288
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[NASA-CASE-LEW-13050-1] c 07 N79-14095
- Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096
- Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
- Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345
- Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346
- Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528
- Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871
- Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17182
- Formulated plastic separators for soluble electrode cells
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- Method of making bearing materials
[NASA-CASE-LEW-11930-4] c 24 N79-17916
- Composite seal for turbomachinery
[NASA-CASE-LEW-12131-1] c 37 N79-18318
- Method for fabricating solar cells having integrated collector grids
[NASA-CASE-LEW-12819-2] c 44 N79-18444
- Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
- Closed loop spray cooling apparatus
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- Hypervelocity gun
[NASA-CASE-XLE-03186-1] c 09 N79-21084
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- Method and device for the detection of phenol and related compounds
[NASA-CASE-LEW-12513-1] c 25 N79-22235
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[NASA-CASE-LEW-12542-2] c 26 N79-22271
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[NASA-CASE-LEW-11873-1] c 37 N79-22475
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- In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
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[NASA-CASE-LEW-12053-2] c 27 N79-28307
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- Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
- Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
- Method and apparatus for rapid thrust increases in a turbofan engine
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[NASA-CASE-LEW-13027-1] c 27 N80-24437
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- Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
- Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711
- Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
- High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
- Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
- Hydrogen hollow cathode ion source
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- Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
- Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
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[NASA-CASE-LEW-13201-1] c 07 N81-14999
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[NASA-CASE-LEW-23169-2] c 26 N81-16209
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[NASA-CASE-LEW-12493-1] c 24 N81-17170
- Curing agent for polyepoxides and epoxy resins and composites cured therewith
[NASA-CASE-LEW-13226-1] c 27 N81-17260
- Apparatus for sensor failure detection and correction in a gas turbine engine control system
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- Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
- Multiple plate hydrostatic viscous damper
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- In-situ cross linking of polyvinyl alcohol
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- Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
- Heat exchanger and method of making
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- Toroidal cell and battery
[NASA-CASE-LEW-12918-1] c 44 N81-24521
- Corrosion resistant thermal barrier coating
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[NASA-CASE-LEW-12493-2] c 24 N81-26179
- Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447
- Polyvinyl alcohol battery separator containing inert filler
[NASA-CASE-LEW-13556-1] c 44 N81-27615
- Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
- Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
- High thermal power density heat transfer
[NASA-CASE-LEW-12950-1] c 34 N82-11399
- Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442
- Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
- Method of making formulated plastic separators for soluble electrode cells
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[NASA-CASE-LEW-15570-1] c 37 N94-35373

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Atomic oxygen protective coating with resistance to undercutting at defect sites
[NASA-CASE-LEW-15306-1] c 27 N94-35502

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NiAl-base composite containing high volume fraction of AlN for advanced engines
[NASA-CASE-LEW-15818-1] c 24 N94-36752

National Aeronautics and Space Administration.
Manned Spacecraft Center, Cape Canaveral, FL.
Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925

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Pulver recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467

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Electrical feed-through connection for printed circuit boards and printed cable		
[NASA-CASE-XMF-01483]	c 14	N69-27431
Method for detecting hydrogen gas		
[NASA-CASE-XMF-03873]	c 06	N69-39733
Electrical connector Patent Application		
[NASA-CASE-MFS-14741]	c 09	N70-20737
Angular measurement system Patent		
[NASA-CASE-XMF-00447]	c 14	N70-33179
Insulating structure Patent		
[NASA-CASE-XMF-00341]	c 15	N70-33323
Space vehicle electrical system Patent		
[NASA-CASE-XMF-00517]	c 03	N70-34157
Pivotal shock absorbing pad assembly Patent		
[NASA-CASE-XMF-03856]	c 31	N70-34159
Gimbaled, partially submerged rocket nozzle Patent		
[NASA-CASE-XMF-01544]	c 28	N70-34162
Recoverable rocket vehicle Patent		
[NASA-CASE-XMF-00389]	c 31	N70-34176
Electrical discharge apparatus for forming Patent		
[NASA-CASE-XMF-00375]	c 15	N70-34249
Optical inspection apparatus Patent		
[NASA-CASE-XMF-00462]	c 14	N70-34298
Relay binary circuit Patent		
[NASA-CASE-XMF-00421]	c 09	N70-34502
Attitude and propellant flow control system and method Patent		
[NASA-CASE-XMF-00185]	c 21	N70-34539
Electrical connector for flat cables Patent		
[NASA-CASE-XMF-00324]	c 09	N70-34596
Externally pressurized fluid bearing Patent		
[NASA-CASE-XMF-00515]	c 15	N70-34664
Force measuring instrument Patent		
[NASA-CASE-XMF-00456]	c 14	N70-34705
Seismic displacement transducer Patent		
[NASA-CASE-XMF-00479]	c 14	N70-34794
Electric arc welding Patent		
[NASA-CASE-XMF-00392]	c 15	N70-34814
Assembly for recovering a capsule Patent		
[NASA-CASE-XMF-00641]	c 31	N70-36410
Printed cable connector Patent		
[NASA-CASE-XMF-00369]	c 09	N70-36494
Landing pad assembly for aerospace vehicles Patent		
[NASA-CASE-XMF-02853]	c 31	N70-36654
Electric arc driven wind tunnel Patent		
[NASA-CASE-XMF-00411]	c 11	N70-36913
Gravity device Patent		
[NASA-CASE-XMF-00424]	c 11	N70-38196
Injector for bipropellant rocket engines Patent		
[NASA-CASE-XMF-00148]	c 28	N70-38710
Electronic motor control system Patent		
[NASA-CASE-XMF-01129]	c 09	N70-38712
Slush suppressing device and method Patent		
[NASA-CASE-XMF-00658]	c 12	N70-38997
Air bearing Patent		
[NASA-CASE-XMF-00339]	c 15	N70-39896
Instrument support with precise lateral adjustment Patent		
[NASA-CASE-XMF-00480]	c 14	N70-39898
Segmented back-up bar Patent		
[NASA-CASE-XMF-00640]	c 15	N70-39924
Collapsible loop antenna for space vehicle Patent		
[NASA-CASE-XMF-00437]	c 07	N70-40202
Flexible back-up bar Patent		
[NASA-CASE-XMF-00722]	c 15	N70-40204
Electro-optical alignment control system Patent		
[NASA-CASE-XMF-00908]	c 14	N70-40238
Missile launch release system Patent		
[NASA-CASE-XMF-03198]	c 30	N70-40353
Double-acting shock absorber Patent		
[NASA-CASE-XMF-01045]	c 15	N70-40354
Portable alignment tool Patent		
[NASA-CASE-XMF-01452]	c 15	N70-41371
Device for suppressing sound and heat produced by high-velocity exhaust jets Patent		
[NASA-CASE-XMF-01813]	c 28	N70-41582
Unfired-ceramic flame-resistant insulation and method of making the same Patent		
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Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent		
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Support apparatus for dynamic testing Patent		
[NASA-CASE-XMF-01772]	c 11	N70-41677
Locking device with rolling detents Patent		
[NASA-CASE-XMF-01371]	c 15	N70-41829
Tank construction for space vehicles Patent		
[NASA-CASE-XMF-01899]	c 31	N70-41948
Positive displacement flowmeter Patent		
[NASA-CASE-XMF-02822]	c 14	N70-41994
Hydraulic support for dynamic testing Patent		
[NASA-CASE-XMF-03248]	c 11	N71-10604
Fiber optic vibration transducer and analyzer Patent		
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Heat pipe thermionic diode power system Patent		
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Synthesis of siloxane-containing epoxy polymers		
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Bi-carrier demodulator with modulation Patent		
[NASA-CASE-XMF-01160]	c 07	N71-11298
Harness assembly Patent		
[NASA-CASE-MFS-14671]	c 05	N71-12341
Magnetic matrix memory system Patent		
[NASA-CASE-XMF-05835]	c 08	N71-12504
Pulse amplitude and width detector Patent		
[NASA-CASE-XMF-06519]	c 09	N71-12519
Microwave power receiving antenna Patent		
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Hybrid holographic system using reflected and transmitted object beams simultaneously Patent		
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Reactance control system Patent		
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[NASA-CASE-XMF-03287]	c 15	N71-15607
Multway vortex valve system Patent		
[NASA-CASE-XMF-04709]	c 15	N71-15609
Injector assembly for liquid fueled rocket engines Patent		
[NASA-CASE-XMF-00968]	c 28	N71-15660
Space capsule ejection assembly Patent		
[NASA-CASE-XMF-03169]	c 31	N71-15675
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Method of making a molded connector Patent		
[NASA-CASE-XMF-03498]	c 15	N71-15986
Regenerative braking system Patent		
[NASA-CASE-XMF-01096]	c 10	N71-16030
Condition and condition duration indicator Patent		
[NASA-CASE-XMF-01097]	c 10	N71-16058
Method and apparatus for securing to a spacecraft Patent		
[NASA-CASE-MFS-11133]	c 31	N71-16222
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[NASA-CASE-XMF-05344]	c 31	N71-16345
Gravimeter Patent		
[NASA-CASE-XMF-05844]	c 14	N71-17587
High pressure gas filter system Patent		
[NASA-CASE-MFS-12806]	c 14	N71-17588
Burst diaphragm flow initiator Patent		
[NASA-CASE-MFS-12915]	c 11	N71-17600
Vacuum deposition apparatus Patent		
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Quick disconnect latch and handle combination Patent		
[NASA-CASE-MFS-11132]	c 15	N71-17649
Method and apparatus for precision sizing and joining of large diameter tubes Patent		
[NASA-CASE-XMF-05114]	c 15	N71-17650
Low temperature flexure fatigue cryostat Patent		
[NASA-CASE-XMF-02964]	c 14	N71-17659
Precision stepping drive Patent		
[NASA-CASE-MFS-14772]	c 15	N71-17692
Multi-mission module Patent		
[NASA-CASE-XMF-01543]	c 31	N71-17730
Ratchet mechanism Patent		
[NASA-CASE-MFS-12805]	c 15	N71-17805
Method of making impurity-type semiconductor electrical contacts Patent		
[NASA-CASE-XMF-01016]	c 26	N71-17818
Apparatus for the determination of the existence or non-existence of a bonding between two members Patent		
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Static inverters which sum a plurality of waves Patent		
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Space environmental work simulator Patent		
[NASA-CASE-XMF-07488]	c 11	N71-18773
Space manufacturing machine Patent		
[NASA-CASE-MFS-20410]	c 15	N71-19214
Extensometer Patent		
[NASA-CASE-XMF-04680]	c 15	N71-19489
Mechanical simulator of low gravity conditions Patent		
[NASA-CASE-MFS-10555]	c 11	N71-19494
Weld control system using thermocouple wire Patent		
[NASA-CASE-MFS-06074]	c 15	N71-20393
Evaporant source for vapor deposition Patent		
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Method of producing alternating ether siloxane copolymers	Patent	
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Honeycomb panel and method of making same	Patent	
[NASA-CASE-XMF-01402]	c 18	N71-21651
Portable milling tool	Patent	
[NASA-CASE-XMF-03511]	c 15	N71-22799
Energy absorbing device	Patent	
[NASA-CASE-XMF-10040]	c 15	N71-22877
Continuous detonation reaction engine	Patent	
[NASA-CASE-XMF-06926]	c 28	N71-22983
Adaptive tracking notch filter system	Patent	
[NASA-CASE-XMF-01892]	c 10	N71-22986
Meteorological balloon	Patent	
[NASA-CASE-XMF-04163]	c 02	N71-23007
Continuous turning slip ring assembly	Patent	
[NASA-CASE-XMF-01049]	c 15	N71-23049
Automatic welding speed controller	Patent	
[NASA-CASE-XMF-01730]	c 15	N71-23050
Positive dc to positive dc converter	Patent	
[NASA-CASE-XMF-14301]	c 09	N71-23188
Zero gravity apparatus	Patent	
[NASA-CASE-XMF-06515]	c 14	N71-23227
Positive dc to negative dc converter	Patent	
[NASA-CASE-XMF-08217]	c 03	N71-23239
Evacuation port seal	Patent	
[NASA-CASE-XMF-03290]	c 15	N71-23256
Azimuth laying system	Patent	
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Electron beam instrument for measuring electric fields	Patent	
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Anemometer with braking mechanism	Patent	
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Apparatus for testing a pressure responsive instrument	Patent	
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Electric welding torch	Patent	
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Swivel support for gas bearings	Patent	
[NASA-CASE-XMF-07808]	c 15	N71-23812
Welding skate with computerized control	Patent	
[NASA-CASE-XMF-07069]	c 15	N71-23815
Docking structure for spacecraft	Patent	
[NASA-CASE-XMF-05941]	c 31	N71-23912
High pressure helium purifier	Patent	
[NASA-CASE-XMF-06888]	c 15	N71-24044
Horizontal cryostat for fatigue testing	Patent	
[NASA-CASE-XMF-10968]	c 14	N71-24234
Method for leakage testing of tanks	Patent	
[NASA-CASE-XMF-02392]	c 32	N71-24285
Internal flare angle gauge	Patent	
[NASA-CASE-XMF-04415]	c 14	N71-24693
Pulse rise time and amplitude detector	Patent	
[NASA-CASE-XMF-08804]	c 09	N71-24717
System for maintaining a motor at a predetermined speed utilizing digital feedback means	Patent	
[NASA-CASE-XMF-06892]	c 09	N71-24805
Power system with heat pipe liquid coolant lines	Patent	
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Magnetomotive metal working device	Patent	
[NASA-CASE-XMF-03793]	c 15	N71-24833
Apparatus for determining the deflection of an electron beam impinging on a target	Patent	
[NASA-CASE-XMF-06617]	c 09	N71-24843
Transistor servo system including a unique differential amplifier circuit	Patent	
[NASA-CASE-XMF-05195]	c 10	N71-24861
RC rate generator for slow speed measurement	Patent	
[NASA-CASE-XMF-02966]	c 10	N71-24863
Method and apparatus for precision sizing and joining of large diameter tubes	Patent	
[NASA-CASE-XMF-05114-3]	c 15	N71-24865
Duct coupling for single-handed operation	Patent	
[NASA-CASE-MFS-20395]	c 15	N71-24903
Brushless direct current tachometer	Patent	
[NASA-CASE-MFS-20385]	c 09	N71-24904
Self-lubricating gears and other mechanical parts	Patent	
[NASA-CASE-MFS-14971]	c 15	N71-24984
Pulse width inverter	Patent	
[NASA-CASE-MFS-10068]	c 10	N71-25139
Isothermal cover with thermal reservoirs	Patent	
[NASA-CASE-MFS-20355]	c 33	N71-25353
Storage container for electronic devices	Patent	
[NASA-CASE-MFS-20075]	c 09	N71-26133

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Filter system for control of outgas contamination in vacuum Patent					
[NASA-CASE-MFS-14711]	c 15	N71-26185			
Image magnification adapter for cameras Patent					
[NASA-CASE-XMF-03844-1]	c 14	N71-26474			
Thickness measuring and injection device Patent					
[NASA-CASE-MFS-20261]	c 14	N71-27005			
Personal propulsion unit Patent					
[NASA-CASE-MFS-20130]	c 28	N71-27585			
Power system with heat pipe liquid coolant lines Patent					
[NASA-CASE-MFS-14114]	c 33	N71-27862			
Method of making shielded flat cable Patent					
[NASA-CASE-MFS-13687]	c 09	N71-28691			
A dc motor speed control system Patent					
[NASA-CASE-MFS-14610]	c 09	N71-28886			
Cryogenic thermal insulation Patent					
[NASA-CASE-XMF-05046]	c 33	N71-28892			
Method of coating through-holes Patent					
[NASA-CASE-XMF-05999]	c 15	N71-29032			
Response analyzers for sensors Patent					
[NASA-CASE-MFS-11204]	c 14	N71-29134			
Current regulating voltage divider					
[NASA-CASE-MFS-20935]	c 09	N71-34212			
Nuclear mass flowmeter					
[NASA-CASE-MFS-20485]	c 14	N72-11365			
Fine adjustment mount					
[NASA-CASE-MFS-20249]	c 15	N72-11386			
Method of making foamed materials in zero gravity					
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Air bearing assembly for curved surfaces					
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Stud-bonding gun					
[NASA-CASE-MFS-20299]	c 15	N72-11392			
Apparatus for obtaining isotropic irradiation of a specimen					
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Wind tunnel test section					
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Multiple image storing system for high speed projectile holography					
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Method of manufacturing semiconductor devices using refractory dielectrics					
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Underwater space suit pressure control regulator					
[NASA-CASE-MFS-20332]	c 05	N72-20097			
Apparatus for making diamonds					
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Photolithography of metal-oxide layers					
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Mechanically actuated triggered hand					
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[NASA-CASE-MFS-20482]	c 15	N72-22492			
Inorganic thermal control coatings					
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High temperature furnace for melting materials in space					
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Siloxane containing epoxide compounds					
[NASA-CASE-MFS-13994-2]	c 06	N72-25148			
Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups					
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Lead attachment to high temperature devices					
[NASA-CASE-ERC-10224]	c 09	N72-25261			
Device for measuring bearing preload					
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Altitude simulation chamber for rocket engine testing					
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Fixture for supporting articles during vibration tests					
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Electrical connector					
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Remote control manipulator for zero gravity environment					
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Process for the preparation of brushite crystals					
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Device and method for determining X ray reflection efficiency of optical surfaces					
[NASA-CASE-MFS-20243]	c 23	N73-13662			
Process for making diamonds					
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Test stand system for vacuum chambers					
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[NASA-CASE-MFS-20916]	c 14	N73-25460			
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[NASA-CASE-ERC-10224-2]	c 09	N73-27150			
Restraint system for ergometer					
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Redundant speed control for brushless Hall effect motor					
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Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver					
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[NASA-CASE-MFS-20645-1]	c 37	N74-23070			
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[NASA-CASE-MFS-21680-1]	c 18	N74-27397			
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[NASA-CASE-MFS-21424-1]	c 34	N74-27730			
Apparatus for conducting flow electrophoresis in the substantial absence of gravity					
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[NASA-CASE-MFS-21049-1]	c 52	N74-27864			
Device for measuring tensile forces					
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Three mirror glancing incidence system for X-ray telescope					
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			Data volume reduction for imaging radar polarimetry [NASA-CASE-NPO-17184-1-CU]	c 32	N88-26541
			Low noise cryogenic dielectric resonator oscillator [NASA-CASE-NPO-17157-1-CU]	c 33	N88-26596
			Method for Viterbi decoding of large constraint length convolutional codes [NASA-CASE-NPO-17310-1-CU]	c 17	N88-28946
			Digital phase-lock loop having an estimator and predictor of error [NASA-CASE-NPO-17196-1-CU]	c 32	N88-29076
			Power supply conditioning circuit [NASA-CASE-NPO-17233-1-CU]	c 33	N88-29095
			Thermocouple for heating and cooling of memory metal actuators [NASA-CASE-NPO-17068-1-CU]	c 35	N88-29151
			Nanosequence digital logic controller [NASA-CASE-NPO-16116-2]	c 60	N88-29310
			Self-actuating heat switches for redundant refrigeration systems [NASA-CASE-NPO-17085-1-CU]	c 31	N89-12785
			Stabilization and oscillation of an acoustically levitated object [NASA-CASE-NPO-16896-1-CU]	c 71	N89-13236
			Passively activated prehensile digit for a robotic end effector [NASA-CASE-NPO-16766-1-CU]	c 37	N89-13785
			Dynamic range compression/expansion of light beams by photorefractive crystals [NASA-CASE-NPO-17140-1-CU]	c 74	N89-14077

CORPORATE SOURCE

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Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078

Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120

Joule Thomson refrigerator
[NASA-CASE-NPO-17143-1-CU] c 31 N89-14351

Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422

Programmable pipelined image processor
[NASA-CASE-NPO-16461-1-CU] c 60 N89-26400

Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676

Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713

Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795

Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846

Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169

Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577

Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679

Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681

Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750

Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261

Acoustic controlled rotation and orientation
[NASA-CASE-NPO-16995-1-CU] c 71 N90-12289

Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104

Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005

Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118

Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132

Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153

Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456

High density tape casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N90-19425

Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776

Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884

Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351

VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061

Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215

Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358

VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525

Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527

Balanced bridge feedback control system
[NASA-CASE-NPO-17430-1-CU] c 33 N90-21951

Atmospheric autrotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769

Convergent strand array liquid pumping system
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Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636

Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N90-23700

Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N90-25583

Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384

MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685

Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016

Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518

Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594

Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658

Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998

Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321

High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489

Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523

Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536

Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538

Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539

Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551

Apparatus and method for characterizing the transmission efficiency of a mass spectrometer
[NASA-CASE-NPO-16989-1-CU] c 35 N91-14587

Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588

Multi-fingered robotic hand
[NASA-CASE-NPO-15959-2] c 37 N91-14616

Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642

Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772

Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807

Acoustic transducer apparatus with reduced thermal conduction
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Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813

Energy efficient continuous flow ash lockhopper
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Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512

Tm:Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528

Ribbon growing method and apparatus
[NASA-CASE-NPO-16306-1-CU] c 76 N91-15898

Torque sensor having a spoked sensor element support structure
[NASA-CASE-NPO-17461-1-CU] c 35 N91-17350

Cladding for transverse-pumped solid-state laser
[NASA-CASE-NPO-17355-1-CU] c 36 N91-17360

Laterally stacked Schottky diodes for infrared sensor applications
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Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544

System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621

Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N91-25316

Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318

Fluid-loop reaction system
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Dynamic resource allocation scheme for distributed heterogeneous computer systems
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High-gain AlGaAs/GaAs double heterojunction Darlington phototransistors for optical neural networks
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Method and apparatus for second-rank tensor generation
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Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
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Flexible thermal apparatus for mounting of thermoelectric cooler
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Multiple symbol differential detection
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Metal chloride cathode for a battery
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Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N91-27957

Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014

Composite flexible blanket insulation
[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236

A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N91-31528

Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810

Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885

Method and apparatus for producing microshells
[NASA-CASE-NPO-16635-1-CU] c 31 N91-32240

Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805

Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852

Regenerative Cu/La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N92-10073

Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126

Passivation of high temperature superconductors
[NASA-CASE-NPO-17949-1-CU] c 76 N92-10681

Multicomponent gas sorption Joule-Thomson refrigeration
[NASA-CASE-NPO-17569-1-CU] c 31 N92-15203

Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N92-15620

Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121

Method and apparatus for increasing resistance of bipolar buried layer integrated circuit devices to single-event upsets
[NASA-CASE-NPO-17573-2-CU] c 33 N92-16196

Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N92-16457

All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N92-16808

Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809

Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561

Device for mechanically stabilizing web ribbon buttons during growth initiation
[NASA-CASE-NPO-17074-2-CU] c 76 N92-21499

Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N92-21712

Adjustable steam producing flexible office independent of fluid pressure
[NASA-CASE-NPO-17625-1-CU] c 34 N92-21724

Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N92-22033

Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N92-22034

Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N92-22035

Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N92-22036

Method for producing edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure

[NASA-CASE-NPO-17812-2-CU] c 76 N92-22040

Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure

[NASA-CASE-NPO-17812-3-CU] c 76 N92-22041

Electrorepulsive actuator

[NASA-CASE-NPO-17684-1-CU] c 33 N92-22042

Electro-optic resonant phase modulator

[NASA-CASE-NPO-18702-1-CU] c 74 N92-23551

Configuration control of seven-degree-of-freedom arms

[NASA-CASE-NPO-18607-1-CU] c 37 N92-23553

Controlling flexible robot arms using a high speed dynamics process

[NASA-CASE-NPO-18499-1-CU] c 37 N92-24042

Controlling under-actuated robot arms using a high speed dynamics process

[NASA-CASE-NPO-18498-1-CU] c 37 N92-24043

Synchronous parallel system for emulation and discrete event simulation

[NASA-CASE-NPO-18414-1-CU] c 62 N92-24045

An improved SNS superconducting junction with weak link barrier and method of producing

[NASA-CASE-NPO-18552-1-CU] c 33 N92-24246

Secondary Li battery incorporating 12-Crown-4 ether

[NASA-CASE-NPO-17922-1-CU] c 33 N92-28753

Method and apparatus for phasing segmented mirror arrays

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Method and apparatus for frequency spectrum analysis

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Method and apparatus for predicting the direction of movement in machine vision

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Precision measurement of magnetic characteristics of an article with nullification of external magnetic fields

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Ultra-high temperature stability Joule-Thomson cooler with capability to accommodate pressure variations

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Sample positioning in microgravity

[NASA-CASE-NPO-18448-1-CU] c 29 N92-30083

Fast temporal neural learning using teacher forcing

[NASA-CASE-NPO-18553-1-CU] c 63 N92-30085

Programmable hyperspectral image mapper with on-array processing

[NASA-CASE-NPO-17794-1-CU] c 74 N92-30104

Encyclopedia of software components

[NASA-CASE-NPO-18435-1-CU] c 61 N92-30543

VLSI architecture for a Reed-Solomon decoder

[NASA-CASE-NPO-17897-1-CU] c 33 N92-33011

Obstacle avoidance for redundant robots using configuration control

[NASA-CASE-NPO-17852-1-CU] c 63 N92-33019

Real-time edge-enhanced optical correlator

[NASA-CASE-NPO-18379-1-CU] c 74 N92-33022

Real time pre-detection dynamic range compression

[NASA-CASE-NPO-18098-1-CU] c 74 N92-33028

Auto and hetero-associative memory using a 2-D optical logic gate

[NASA-CASE-NPO-17997-1-CU] c 60 N92-33057

Hazardous materials emergency response mobile robot

[NASA-CASE-NPO-18690-1-CU] c 37 N92-34205

Cascaded VLSI neural network architecture for on-line learning

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INAS hole-immobilized doping superlattice

[NASA-CASE-NPO-17880-1-CU] c 76 N93-11056

The adaptive neuron model: An architecture for the rapid learning of nonlinear topological transformations

[NASA-CASE-NPO-18579-1-CU] c 63 N93-11174

Terminal slider control of nonlinear robotic systems

[NASA-CASE-NPO-18584-1-CU] c 37 N93-11177

Mappings between codewords of two distinct (N,K) Reed-Solomon codes over GF(2 sup J)

[NASA-CASE-NPO-18771-1-CU] c 61 N93-11664

Backward assembly planning with DFA analysis

[NASA-CASE-NPO-18817-1-CU] c 31 N93-12202

Quantum well, beam deflecting surface emitting lasers

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Integrated filter and detector array for spectral imaging

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Acoustic device and method for measuring gas densities

[NASA-CASE-NPO-18155-1-CU] c 71 N93-13421

Three-stage sorption type cryogenic refrigeration systems and methods employing heat regeneration

[NASA-CASE-NPO-18366-1-CU] c 31 N93-13422

Large area projection liquid-crystal video display system with inherent grid pattern optically removed

[NASA-CASE-NPO-16932-2-CU] c 74 N93-13711

Real-time edge-enhanced optical correlator

[NASA-CASE-NPO-18521-1-CU] c 74 N93-14404

Core design for use with precision composite reflectors

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Multiplexed-grating surface-emitting lasers

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High speed magneto-resistive random access memory

[NASA-CASE-NPO-17954-1-CU] c 60 N93-14704

Modified fast frequency acquisition via adaptive least squares algorithm

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Near real-time stereo vision system

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Self-collimated unstable resonator semiconductor laser

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Cascaded transformerless DC-DC voltage amplifier with optically isolated switching devices

[NASA-CASE-NPO-17994-1-CU] c 33 N93-18278

Composite video and graphics display for camera viewing systems in robotics and teleoperation

[NASA-CASE-NPO-17836-1-CU] c 32 N93-18284

Method for non-destructive estimation of waveguide directional coupler dimensions

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AMTEC vapor-vapor series connected cells

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Long wavelength infrared detector

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Neural-network dedicated processor for solving competitive assignment problems

[NASA-CASE-NPO-17781-1-CU] c 60 N93-20116

Self-checking on-line testable static RAM

[NASA-CASE-NPO-17839-1-CU] c 60 N93-22032

Force reflecting hand controller

[NASA-CASE-NPO-17851-1-CU] c 37 N93-23078

Composite passive damping struts for large precision structures

[NASA-CASE-NPO-17914-1-CU] c 39 N93-24596

GaAs-based optoelectronic neurons

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Sample positioning in microgravity

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Extended task space control for robotic manipulators

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Burst-by-burst laser frequency monitor

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Motion-sensitive optical correlator

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Parallel and series fed microstrip array with high efficiency and low cross polarization

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Three-grid accelerator system for an ion propulsion engine

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Diamond composite films for protective coatings on metals and method of formation

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Digital parallel processor array for optimum path planning

[NASA-CASE-NPO-18727-1-CU] c 62 N93-28427

Aberration correction of unstable resonators

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A satellite-tracking millimeter-wave reflector antenna system for mobile satellite-tracking

[NASA-CASE-NPO-18772-1-CU] c 32 N93-28955

Improved real-time imaging spectrometer

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Miniature modular microwave end-to-end receiver

[NASA-CASE-NPO-18713-1-CU] c 32 N93-29087

Three-parameter tunable Tilt-Integral-Derivative (TID) controller

[NASA-CASE-NPO-18492-1-CU] c 63 N93-29176

Parallel inferencing method and apparatus for rule-based expert systems

[NASA-CASE-NPO-18004-1-CU] c 60 N93-29504

Planar microstrip YAGI antenna array

[NASA-CASE-NPO-17873-2-CU] c 32 N93-29507

Special purpose parallel computer architecture for real-time control and simulation in robotic applications

[NASA-CASE-NPO-17629-1-CU] c 60 N93-29608

Wavelength-division multiplexed optical integrated circuit with vertical diffraction grating

[NASA-CASE-NPO-18357-1-CU] c 74 N93-29848

Hidden Markov models for fault detection in dynamic systems

[NASA-CASE-NPO-18982-1-CU] c 38 N93-30413

Tunable CW diode-pumped Tm,Ho:YLiF4 laser operating at or near room temperature

[NASA-CASE-NPO-18611-1-CU] c 36 N93-30415

Virtual reality flight control display with six-degree-of-freedom controller and spherical orientation overlay

[NASA-CASE-NPO-18733-1-CU] c 06 N93-30416

Force reflection with compliance control

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Method for producing a hybridization of detector array and integrated circuit for readout

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Alkali metal for ultraviolet band-pass filter

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Telerobot control system

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Carbon-carbon grid for ion engines

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Cyanoresin, cyanoresin/cellulose triacetate blends for thin film, dielectric capacitors

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Laser with optically driven Q-switch

[NASA-CASE-NPO-18470-1-CU] c 36 N94-15932

Display system employing acousto-optic tunable filter

[NASA-CASE-NPO-18736-1-CU] c 74 N94-15933

Cellulose triacetate, thin film dielectric capacitor

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Unipolar terminal-attractor based neural associative memory with adaptive threshold

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Selective formation of porous silicon

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Aberration correction of unstable resonators

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Leak detection utilizing analog binaural (VLSI) techniques

[NASA-CASE-NPO-18399-1-CU] c 33 N94-17323

Optically-switched submillimeter-wave oscillator and radiator

[NASA-CASE-NPO-18547-1-CU] c 33 N94-17324

Thin composite solid electrolyte film for lithium batteries

[NASA-CASE-NPO-18694-1-CU] c 33 N94-17325

Method and apparatus for spur-reduced digital sinusoid synthesis

[NASA-CASE-NPO-18789-1-CU] c 61 N94-17326

Buried porous silicon-germanium layers in monocrystalline silicon lattices and method of producing

[NASA-CASE-NPO-18836-1-CU] c 76 N94-17327

Non-blocking crossbar permutation engine with constant routing latency

[NASA-CASE-NPO-18864-1-CU] c 62 N94-17328

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[NASA-CASE-NPO-18870-1-CU] c 72 N94-17329

A scalable wrap-around shuffle exchange network with deflection routing

[NASA-CASE-NPO-18983-1-CU] c 62 N94-17330

Wide angle, single screen, gridded square-loop frequency selective surface for duplexing two closely separated frequency bands

[NASA-CASE-NPO-18664-1-CU] c 89 N94-17438

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[NASA-CASE-NPO-18278-1-CU] c 74 N94-20303

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[NASA-CASE-NPO-18194-1-CU] c 74 N94-20305

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[NASA-CASE-NPO-18146-1-CU] c 74 N94-20345

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[NASA-CASE-NPO-17807-2-CU] c 63 N94-20360

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[NASA-CASE-NPO-18192-1-CU] c 20 N94-20496

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[NASA-CASE-NPO-18007-2-CU] c 74 N94-23270

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[NASA-CASE-NPO-17621-1-CU] c 33 N94-23820

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[NASA-CASE-NPO-18428-1-CU] c 33 N94-23821

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[NASA-CASE-NPO-18343-1-CU] c 33 N94-23823

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[NASA-CASE-NPO-18625-1-CU] c 76 N94-23972

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[NASA-CASE-NPO-18877-1-CU] c 33 N94-29357

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[NASA-CASE-NPO-18819-1-CU] c 29 N94-29371

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[NASA-CASE-NPO-19108-1-CU] c 35 N94-29373

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[NASA-CASE-NPO-18757-1-CU] c 33 N94-29374

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[NASA-CASE-NPO-18585-1-CU] c 33 N94-29411

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[NASA-CASE-NPO-19020-1-CU] c 37 N94-29420

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[NASA-CASE-NPO-18578-1-CU] c 33 N94-29426

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[NASA-CASE-NPO-17918-2-CU] c 63 N94-29465

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[NASA-CASE-NPO-18978-1-CU] c 33 N94-29488

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[NASA-CASE-NPO-18987-1-CU] c 28 N94-29490

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[NASA-CASE-NPO-19039-1-CU] c 74 N94-29491

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[NASA-CASE-NPO-19077-1-CU] c 63 N94-29492

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[NASA-CASE-NPO-19069-1-CU] c 36 N94-29493

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[NASA-CASE-NPO-19166-1-CU] c 32 N94-29495

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[NASA-CASE-NPO-18995-1-CU] c 35 N94-29497

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[NASA-CASE-NPO-18483-1-CU] c 76 N94-29501

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[NASA-CASE-NPO-18608-1-CU] c 63 N94-29504

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[NASA-CASE-NPO-17803-1-CU] c 63 N94-29756

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[NASA-CASE-NPO-18655-1-CU] c 35 N94-35114

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[NASA-CASE-NPO-18409-1-CU] c 25 N94-35255

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[NASA-CASE-NPO-18786-1-CU] c 37 N94-35375

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[NASA-CASE-NPO-17837-1-CU] c 74 N94-35384

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[NASA-CASE-LAR-10000] c 14 N73-30394

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[NASA-CASE-LAR-02743] c 14 N73-32324

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[NASA-CASE-XNP-10007-1] c 46 N74-23068

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[NASA-CASE-XMS-08589-1] c 09 N71-20569

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[NASA-CASE-XMS-03745] c 15 N71-21076

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[NASA-CASE-XMS-06876] c 15 N71-21536

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[NASA-CASE-XMS-09310] c 15 N71-22706

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[NASA-CASE-XMF-02303] c 17 N71-23828

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[NASA-CASE-XNP-05524] c 33 N71-24876

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[NASA-CASE-XFR-08403] c 05 N71-11202

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[NASA-CASE-NPO-10890] c 11 N73-12265

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[NASA-CASE-MFS-21919-1] c 10 N73-25243

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[NASA-CASE-MSC-15626-1] c 14 N72-25411

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[NASA-CASE-MSC-12357] c 15 N73-12489

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[NASA-CASE-MSC-15567-1] c 33 N73-16918

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[NASA-CASE-LAR-10634-1] c 37 N74-18123

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[NASA-CASE-FRC-10022] c 12 N71-26546

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[NASA-CASE-XMF-08651] c 06 N71-11236

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[NASA-CASE-XMF-08655] c 06 N71-11239

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[NASA-CASE-XMF-08656] c 06 N71-11242

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[NASA-CASE-XMF-03074] c 06 N71-24740

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[NASA-CASE-MSC-14472-1] c 43 N77-10584

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- Old Dominion Univ., Norfolk, VA.**
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[NASA-CASE-LAR-11476-1] c 07 N76-27232
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[NASA-CASE-LAR-12106-1] c 71 N78-14867
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[NASA-CASE-LAR-12326-1] c 02 N81-14968
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[NASA-CASE-FRC-10019] c 15 N73-12487
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[NASA-CASE-ARC-11241-1] c 25 N81-14016
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[NASA-CASE-NPO-10768-2] c 06 N72-27144
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[NASA-CASE-MSC-12165-1] c 07 N71-33696
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[NASA-CASE-NPO-11118] c 03 N72-25021
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[NASA-CASE-GSC-11046-1] c 07 N73-28013
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[NASA-CASE-GSC-12334-1] c 36 N79-14362
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[NASA-CASE-LEW-12513-1] c 25 N79-22235
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[NASA-CASE-NPO-10109] c 03 N71-11049
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[NASA-CASE-NPO-12070-1] c 28 N73-32606
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[NASA-CASE-GSC-11560-1] c 33 N74-20861
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[NASA-CASE-NPO-14298-1] c 76 N80-32244
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[NASA-CASE-XLA-07813] c 14 N72-17328
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- Thermobulb mount Patent
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- Laminar flow enhancement Patent
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- Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
- Internally supported flexible duct joint
[NASA-CASE-MFS-19193-1] c 37 N75-19686
- Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
- Brazing alloy composition
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- Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
- Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c 35 N75-27329
- Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
- Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382
- Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
- Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
- Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
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[NASA-CASE-XMF-05373-1] c 33 N79-21264
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Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
- Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562
- Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N78-32140
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[NASA-CASE-MSC-19442-1] c 74 N77-10899
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[NASA-CASE-MSC-19693-1] c 26 N78-24333

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[NASA-CASE-MSC-18430-1] c 37 N82-24491

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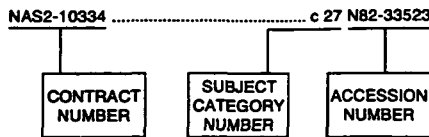
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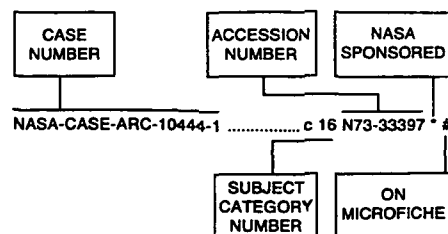
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NASA-CASE-ARC-10178-1	c 09	N72-17152 *	NASA-CASE-ARC-10900-1	c 35	N77-24454 *	NASA-CASE-ARC-11349-1	c 37	N86-20797 *
NASA-CASE-ARC-10179-1	c 21	N72-22619 *	NASA-CASE-ARC-10903-1	c 09	N78-18083 *	NASA-CASE-ARC-11354-1	c 74	N83-21949 *
NASA-CASE-ARC-10180-1	c 27	N74-12814 *	NASA-CASE-ARC-10905-1	c 37	N77-13418 *	NASA-CASE-ARC-11359-1	c 51	N84-28361 *
NASA-CASE-ARC-10192	c 09	N72-21245 *	NASA-CASE-ARC-10907-1	c 37	N75-32465 *	NASA-CASE-ARC-11361-1	c 35	N84-22934 *
NASA-CASE-ARC-10194-1	c 23	N73-20741 *	NASA-CASE-ARC-10911-1	c 35	N77-20400 *	NASA-CASE-ARC-11363-1	c 31	N87-16918 *
NASA-CASE-ARC-10196-1	c 18	N73-13562 *	NASA-CASE-ARC-10912-1	c 34	N77-19353 *	NASA-CASE-ARC-11368-1	c 27	N83-31854 *
NASA-CASE-ARC-10197-1	c 33	N74-17929 *	NASA-CASE-ARC-10913-1	c 24	N78-15180 *	NASA-CASE-ARC-11368-2	c 27	N85-21347 *
NASA-CASE-ARC-10198	c 34	N78-17336 *	NASA-CASE-ARC-10915-2	c 27	N79-18052 *	NASA-CASE-ARC-11368-3	c 27	N84-22745 *
NASA-CASE-ARC-10199	c 34	N78-17337 *	NASA-CASE-ARC-10916-1	c 52	N78-10686 *	NASA-CASE-ARC-11370-1	c 27	N84-22750 *
NASA-CASE-ARC-10263-1	c 14	N72-22438 *	NASA-CASE-ARC-10917-1	c 51	N78-27733 *	NASA-CASE-ARC-11372-1	c 08	N86-27288 *
NASA-CASE-ARC-10264-1	c 09	N73-20231 *	NASA-CASE-ARC-10932-1	c 74	N76-22993 *	NASA-CASE-ARC-11400-1	c 27	N84-14322 *
NASA-CASE-ARC-10265-1	c 10	N72-28240 *	NASA-CASE-ARC-10970-1	c 36	N77-25501 *	NASA-CASE-ARC-11402-1	c 27	N84-22744 *
NASA-CASE-ARC-10266-1	c 33	N75-29318 *	NASA-CASE-ARC-10974-1	c 34	N77-27345 *	NASA-CASE-ARC-11402-3	c 23	N86-21582 *
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NASA-CASE-ARC-10322-1	c 35	N76-18403 *	NASA-CASE-ARC-10985-1	c 52	N79-10724 *	NASA-CASE-ARC-11423-1	c 03	N84-33394 *
NASA-CASE-ARC-10325	c 06	N72-25147 *	NASA-CASE-ARC-10990-1	c 04	N82-16059 *	NASA-CASE-ARC-11424-1	c 27	N85-34281 *
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NASA-CASE-ARC-10348-1	c 33	N75-19518 *	NASA-CASE-ARC-11007-1	c 52	N77-14736 *	NASA-CASE-ARC-11426-2	c 52	N89-16256 *
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NASA-CASE-ARC-10444-1	c 16	N73-33397 *	NASA-CASE-ARC-11042-1	c 24	N78-14096 *	NASA-CASE-ARC-11429-3CU	c 27	N87-16908 *
NASA-CASE-ARC-10445-1	c 31	N76-31365 *	NASA-CASE-ARC-11043-1	c 24	N78-27180 *	NASA-CASE-ARC-11429-4CU	c 27	N87-15304 *
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NASA-CASE-ARC-10448-3	c 35	N77-14408 *	NASA-CASE-ARC-11051-1	c 27	N78-32260 *	NASA-CASE-ARC-11503-1	c 35	N85-34374 *
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NASA-CASE-ARC-10463-1	c 09	N73-32111 *	NASA-CASE-ARC-11058-1	c 54	N78-31735 *	NASA-CASE-ARC-11506-2	c 23	N86-32525 *
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NASA-CASE-ARC-10592-1	c 27	N74-21156 *	NASA-CASE-ARC-11114-1	c 51	N81-14605 *	NASA-CASE-ARC-11538-1SB	c 24	N86-21590 *
NASA-CASE-ARC-10592-2	c 27	N76-32315 *	NASA-CASE-ARC-11116-1	c 33	N82-24420 *	NASA-CASE-ARC-11543-1	c 54	N86-28620 *
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NASA-CASE-ARC-10637-1	c 35	N75-16783 *	NASA-CASE-ARC-11158-1	c 09	N82-24212 *	NASA-CASE-ARC-11620-1	c 37	N87-25573 *
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NASA-CASE-ARC-10710-1	c 09	N75-12969 *	NASA-CASE-ARC-11170-1	c 27	N79-11215 *	NASA-CASE-ARC-11634-1	c 36	N88-14350 *
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NASA-CASE-ARC-11643-1-SB	c 23	N87-23698 *	NASA-CASE-ERC-10338	c 04	N72-33072 *	NASA-CASE-GSC-10350-1	c 44	N82-24642 *
NASA-CASE-ARC-11646-1	c 14	N87-25344 *	NASA-CASE-ERC-10339-1	c 18	N73-30532 *	NASA-CASE-GSC-10361-1	c 18	N72-23581 *
NASA-CASE-ARC-11649-1-SB	c 27	N88-29040 *	NASA-CASE-ERC-10350	c 14	N73-20474 *	NASA-CASE-GSC-10366-1	c 10	N71-18772 *
NASA-CASE-ARC-11649-2-SB	c 27	N90-21177 *	NASA-CASE-ERC-10363	c 18	N72-25541 *	NASA-CASE-GSC-10373-1	c 07	N71-18773 *
NASA-CASE-ARC-11652-1	c 27	N87-23737 *	NASA-CASE-ERC-10364	c 18	N72-25540 *	NASA-CASE-GSC-10376-1	c 14	N71-27407 *
NASA-CASE-ARC-11873-2	c 25	N91-31258 *	NASA-CASE-ERC-10365-1	c 31	N73-32749 *	NASA-CASE-GSC-10390-1	c 07	N72-11149 *
NASA-CASE-ARC-11876-1	c 36	N90-25340 *	NASA-CASE-ERC-10392	c 21	N73-14692 *	NASA-CASE-GSC-10413	c 10	N71-26531 *
NASA-CASE-ARC-11877-1-SB	c 09	N91-14357 *	NASA-CASE-ERC-10403-1	c 10	N73-26228 *	NASA-CASE-GSC-10441-1	c 14	N71-27325 *
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NASA-CASE-ARC-11886-1-SB	c 35	N91-14591 *	NASA-CASE-ERC-10419-1	c 03	N75-30132 *	NASA-CASE-GSC-10487-1	c 03	N71-24719 *
NASA-CASE-ARC-11888-1	c 24	N92-16026 *	NASA-CASE-ERC-10439	c 02	N73-19004 *	NASA-CASE-GSC-10503-1	c 14	N72-20381 *
NASA-CASE-ARC-11889-1-SB	c 74	N94-23309 *	NASA-CASE-ERC-10468	c 09	N72-20206 *	NASA-CASE-GSC-10514-1	c 14	N72-20379 *
NASA-CASE-ARC-11891-2-SB	c 27	N92-34160 *	NASA-CASE-ERC-10552	c 09	N71-12539 *	NASA-CASE-GSC-10518-1	c 15	N72-22489 *
NASA-CASE-ARC-11892-1-SB	c 74	N92-16810 *	NASA-CASE-ERC-11020	c 14	N71-26774 *	NASA-CASE-GSC-10553-1	c 07	N71-19854 *
NASA-CASE-ARC-11907-1-NP	c 24	N91-31236 *	NASA-CASE-FRC-10005	c 15	N71-26145 *	NASA-CASE-GSC-10554-1	c 08	N71-29033 *
NASA-CASE-ARC-11909-1	c 03	N91-31113 *	NASA-CASE-FRC-10010	c 10	N71-24862 *	NASA-CASE-GSC-10555-1	c 21	N71-27324 *
NASA-CASE-ARC-11916-1-SB	c 74	N92-16811 *	NASA-CASE-FRC-10012	c 14	N72-17329 *	NASA-CASE-GSC-10556-1	c 31	N71-26537 *
NASA-CASE-ARC-11917-1	c 35	N91-15520 *	NASA-CASE-FRC-10019	c 15	N73-12487 *	NASA-CASE-GSC-10557-1	c 31	N71-26537 *
NASA-CASE-ARC-11919-1-NP	c 71	N94-23312 *	NASA-CASE-FRC-10022	c 12	N71-26546 *	NASA-CASE-GSC-10564	c 10	N71-29135 *
NASA-CASE-ARC-11921-1	c 34	N94-20371 *	NASA-CASE-FRC-10029-2	c 05	N72-25121 *	NASA-CASE-GSC-10565-1	c 06	N72-25149 *
NASA-CASE-ARC-11934-1	c 34	N94-23077 *	NASA-CASE-FRC-10029	c 09	N71-24618 *	NASA-CASE-GSC-10566-1	c 15	N72-18477 *
NASA-CASE-ARC-11935-1	c 34	N94-23306 *	NASA-CASE-FRC-10036	c 09	N72-22200 *	NASA-CASE-GSC-10590-1	c 31	N73-14853 *
NASA-CASE-ARC-11950-1	c 09	N94-23310 *	NASA-CASE-FRC-10038	c 15	N72-22444 *	NASA-CASE-GSC-10607-1	c 15	N72-20442 *
NASA-CASE-ARC-11955-1-CU	c 24	N94-29509 *	NASA-CASE-FRC-10049-1	c 04	N74-13420 *	NASA-CASE-GSC-10614-1	c 09	N72-11224 *
NASA-CASE-ARC-11956-1-SB	c 27	N94-23311 *	NASA-CASE-FRC-10051-1	c 35	N74-13129 *	NASA-CASE-GSC-10640-1	c 28	N72-18766 *
NASA-CASE-ARC-12001-1	c 71	N94-29363 *	NASA-CASE-FRC-10053	c 14	N70-35587 *	NASA-CASE-GSC-10656-1	c 09	N72-25249 *
NASA-CASE-ARC-12013-1-CU	c 32	N94-29364 *	NASA-CASE-FRC-10060-1	c 14	N73-27379 *	NASA-CASE-GSC-10667-1	c 10	N71-33129 *
NASA-CASE-ARC-12014-1	c 35	N94-29361 *	NASA-CASE-FRC-10063	c 01	N71-12217 *	NASA-CASE-GSC-10668-1	c 07	N71-28430 *
NASA-CASE-ARC-12015-1	c 60	N94-29375 *	NASA-CASE-FRC-10071-1	c 32	N74-20813 *	NASA-CASE-GSC-10669-1	c 03	N72-20031 *
NASA-CASE-ARC-12030-1	c 71	N94-29362 *	NASA-CASE-FRC-10072-1	c 37	N74-14939 *	NASA-CASE-GSC-10695-1	c 09	N72-25259 *
NASA-CASE-ARC-14408-1	c 27	N82-33523 *	NASA-CASE-FRC-10081-1	c 33	N77-14477 *	NASA-CASE-GSC-10700	c 23	N71-30027 *
NASA-CASE-ERC-10001	c 23	N71-24868 *	NASA-CASE-FRC-10090-1	c 33	N78-18308 *	NASA-CASE-GSC-10709-1	c 28	N71-25213 *
NASA-CASE-ERC-10011	c 07	N71-29065 *	NASA-CASE-FRC-10092-1	c 05	N79-12061 *	NASA-CASE-GSC-10710-1	c 28	N71-27094 *
NASA-CASE-ERC-10013	c 09	N71-26678 *	NASA-CASE-FRC-10093-1	c 35	N80-20560 *	NASA-CASE-GSC-10735-1	c 10	N71-26085 *
NASA-CASE-ERC-10014	c 14	N71-28863 *	NASA-CASE-FRC-10111-1	c 37	N79-10419 *	NASA-CASE-GSC-10780-1	c 14	N72-16283 *
NASA-CASE-ERC-10015-2	c 10	N72-27246 *	NASA-CASE-FRC-10112-1	c 35	N81-26431 *	NASA-CASE-GSC-10786-1	c 10	N72-28241 *
NASA-CASE-ERC-10017	c 16	N71-15567 *	NASA-CASE-FRC-10113-1	c 33	N80-26599 *	NASA-CASE-GSC-10791-1	c 15	N73-14469 *
NASA-CASE-ERC-10019	c 16	N71-15551 *	NASA-CASE-FRC-10116-1	c 33	N79-23345 *	NASA-CASE-GSC-10814-1	c 03	N73-20039 *
NASA-CASE-ERC-10020	c 16	N71-26154 *	NASA-CASE-FRC-11005-1	c 06	N82-16075 *	NASA-CASE-GSC-10835-1	c 09	N72-33205 *
NASA-CASE-ERC-10022	c 15	N71-26635 *	NASA-CASE-FRC-11007-2	c 05	N82-26277 *	NASA-CASE-GSC-10878-1	c 10	N72-22236 *
NASA-CASE-ERC-10031	c 12	N71-18603 *	NASA-CASE-FRC-11009-1	c 06	N80-18036 *	NASA-CASE-GSC-10879-1	c 14	N72-25413 *
NASA-CASE-ERC-10032	c 10	N71-25900 *	NASA-CASE-FRC-11012-1	c 52	N80-23969 *	NASA-CASE-GSC-10880-1	c 08	N72-11172 *
NASA-CASE-ERC-10033	c 14	N71-26672 *	NASA-CASE-FRC-11013-1	c 43	N81-17499 *	NASA-CASE-GSC-10890-1	c 21	N73-30640 *
NASA-CASE-ERC-10034	c 15	N71-24896 *	NASA-CASE-FRC-11014-1	c 33	N82-18494 *	NASA-CASE-GSC-10891-1	c 10	N71-26626 *
NASA-CASE-ERC-10041	c 08	N71-29138 *	NASA-CASE-FRC-11024-1	c 02	N80-28300 *	NASA-CASE-GSC-10903-1	c 14	N73-12444 *
NASA-CASE-ERC-10044-1	c 14	N71-27090 *	NASA-CASE-FRC-11025-1	c 33	N82-24417 *	NASA-CASE-GSC-10913	c 15	N72-22491 *
NASA-CASE-ERC-10045	c 15	N71-24910 *	NASA-CASE-FRC-11026-1	c 24	N82-24296 *	NASA-CASE-GSC-10945-1	c 21	N72-31637 *
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US-PATENT-APPL-SN-165910	c 32	N83-31918 *	US-PATENT-APPL-SN-182266	c 17	N91-14371 *	US-PATENT-APPL-SN-197183	c 02	N76-22154 *	
US-PATENT-APPL-SN-165943	c 37	N89-28831 *	US-PATENT-APPL-SN-182399	c 07	N73-28013 *	US-PATENT-APPL-SN-197191	c 32	N89-28672 *	
US-PATENT-APPL-SN-165945	c 35	N90-22025 *	US-PATENT-APPL-SN-182692	c 15	N70-36535 *	US-PATENT-APPL-SN-197548	c 09	N70-34502 *	
US-PATENT-APPL-SN-165946	c 20	N90-19298 *	US-PATENT-APPL-SN-182696	c 21	N70-36938 *	US-PATENT-APPL-SN-197551	c 31	N70-34296 *	
US-PATENT-APPL-SN-165956	c 18	N90-19278 *	US-PATENT-APPL-SN-182698	c 15	N70-38620 *	US-PATENT-APPL-SN-197553	c 08	N70-34778 *	
US-PATENT-APPL-SN-166487	c 11	N73-32152 *	US-PATENT-APPL-SN-182699	c 28	N70-38504 *	US-PATENT-APPL-SN-197554	c 14	N70-35368 *	
US-PATENT-APPL-SN-166541	c 14	N73-13415 *	US-PATENT-APPL-SN-182879	c 37	N82-32730 *	US-PATENT-APPL-SN-197689	c 31	N74-14133 *	
US-PATENT-APPL-SN-166699	c 15	N70-34249 *	US-PATENT-APPL-SN-182880	c 37	N83-19091 *	US-PATENT-APPL-SN-197689	c 31	N75-13111 *	
US-PATENT-APPL-SN-166970	c 15	N70-36409 *	US-PATENT-APPL-SN-182881	c 18	N83-28064 *	US-PATENT-APPL-SN-197870	c 14	N73-32322 *	
US-PATENT-APPL-SN-167107	c 32	N94-29589 *	US-PATENT-APPL-SN-182977	c 39	N74-13131 *	US-PATENT-APPL-SN-198093	c 39	N83-20280 *	
US-PATENT-APPL-SN-167719	c 16	N73-33397 *	US-PATENT-APPL-SN-182978	c 16	N73-13489 *	US-PATENT-APPL-SN-198285	c 09	N73-13208 *	
US-PATENT-APPL-SN-168065	c 35	N91-14590 *	US-PATENT-APPL-SN-183240	c 06	N73-30098 *	US-PATENT-APPL-SN-198289	c 14	N73-32326 *	
US-PATENT-APPL-SN-16808	c 14	N72-22445 *	US-PATENT-APPL-SN-183475	c 52	N91-14709 *	US-PATENT-APPL-SN-198355	c 05	N72-15098 *	#
US-PATENT-APPL-SN-168560	c 02	N70-34856 *	US-PATENT-APPL-SN-183707	c 23	N85-33187 *	US-PATENT-APPL-SN-198362	c 14	N73-28489 *	
US-PATENT-APPL-SN-168650	c 14	N73-13416 *	US-PATENT-APPL-SN-183977	c 28	N70-38505 *	US-PATENT-APPL-SN-198379	c 15	N73-32359 *	
US-PATENT-APPL-SN-168943	c 54	N82-26987 *	US-PATENT-APPL-SN-183978	c 15	N70-38020 *	US-PATENT-APPL-SN-198472	c 27	N74-12812 *	
US-PATENT-APPL-SN-168944	c 37	N82-32731 *	US-PATENT-APPL-SN-184090	c 14	N73-32327 *	US-PATENT-APPL-SN-198763	c 31	N74-18124 *	
US-PATENT-APPL-SN-169671	c 10	N73-30205 *	US-PATENT-APPL-SN-184233	c 18	N89-28554 *	US-PATENT-APPL-SN-198763	c 31	N74-32920 *	
US-PATENT-APPL-SN-169962	c 34	N74-30608 *	US-PATENT-APPL-SN-184234	c 76	N90-19884 *	US-PATENT-APPL-SN-198885	c 05	N73-27062 *	
US-PATENT-APPL-SN-169977	c 14	N70-34794 *	US-PATENT-APPL-SN-184235	c 32	N90-17005 *	US-PATENT-APPL-SN-199199	c 25	N71-29184 *	
US-PATENT-APPL-SN-170440	c 15	N73-13462 *	US-PATENT-APPL-SN-184236	c 37	N90-17153 *	US-PATENT-APPL-SN-199202	c 14	N70-40239 *	
US-PATENT-APPL-SN-170544	c 36	N77-19416 *	US-PATENT-APPL-SN-18427	c 09	N72-23172 *	US-PATENT-APPL-SN-19971	c 09	N70-33312 *	
US-PATENT-APPL-SN-170680	c 34	N74-15652 *	US-PATENT-APPL-SN-184649	c 07	N70-36911 *	US-PATENT-APPL-SN-199765	c 33	N81-12330 *	#
US-PATENT-APPL-SN-170681	c 10	N73-25240 *	US-PATENT-APPL-SN-184660	c 06	N73-27980 *	US-PATENT-APPL-SN-199766	c 36	N84-28065 *	
US-PATENT-APPL-SN-17101	c 28	N72-18766 *	US-PATENT-APPL-SN-185865	c 52	N80-33081 *	US-PATENT-APPL-SN-199767	c 33	N83-16626 *	
US-PATENT-APPL-SN-171928	c 33	N82-26570 *	US-PATENT-APPL-SN-185867	c 44	N82-26777 *	US-PATENT-APPL-SN-199768	c 27	N84-22746 *	
US-PATENT-APPL-SN-171933	c 37	N82-12441 *	US-PATENT-APPL-SN-185868	c 24	N84-16262 *	US-PATENT-APPL-SN-199768	c 27	N85-20123 *	
US-PATENT-APPL-SN-171934	c 35	N82-26628 *	US-PATENT-APPL-SN-185869	c 71	N82-16800 *	US-PATENT-APPL-SN-199769	c 26	N82-31505 *	
US-PATENT-APPL-SN-172098	c 33	N80-29583 *	US-PATENT-APPL-SN-186054	c 27	N94-29451 *	US-PATENT-APPL-SN-199924	c 33	N94-29372 *	#
US-PATENT-APPL-SN-172099	c 32	N82-27558 *	US-PATENT-APPL-SN-186183	c 33	N94-29357 *	US-PATENT-APPL-SN-199957	c 10	N73-26229 *	
US-PATENT-APPL-SN-172100	c 27	N82-33520 *	US-PATENT-APPL-SN-186185	c 33	N94-29488 *	US-PATENT-APPL-SN-200040	c 52	N74-10975 *	
US-PATENT-APPL-SN-172100	c 31	N90-21215 *	US-PATENT-APPL-SN-186366	c 60	N94-29375 *	US-PATENT-APPL-SN-200085	c 26	N73-26751 *	
US-PATENT-APPL-SN-172101	c 76	N90-23242 *	US-PATENT-APPL-SN-186700	c 32	N74-12912 *	US-PATENT-APPL-SN-200634	c 34	N83-27144 *	
US-PATENT-APPL-SN-172102	c 26	N89-28621 *	US-PATENT-APPL-SN-186881	c 74	N82-30071 *	US-PATENT-APPL-SN-200682	c 07	N73-14130 *	
US-PATENT-APPL-SN-172105	c 33	N91-31528 *	US-PATENT-APPL-SN-187032	c 37	N94-29486 *	US-PATENT-APPL-SN-200717	c 09	N73-19234 *	
US-PATENT-APPL-SN-172105	c 63	N91-31885 *	US-PATENT-APPL-SN-187106	c 74	N83-17305 *	US-PATENT-APPL-SN-200762	c 03	N73-20040 *	
US-PATENT-APPL-SN-172459	c 06	N73-16106 *	US-PATENT-APPL-SN-187143	c 36	N74-13205 *	US-PATENT-APPL-SN-200770	c 09	N79-21084 *	
US-PATENT-APPL-SN-172727	c 33	N81-26360 *	US-PATENT-APPL-SN-187262	c 15	N73-27406 *	US-PATENT-APPL-SN-200785	c 28	N94-29490 *	#
US-PATENT-APPL-SN-172807	c 07	N73-28012 *	US-PATENT-APPL-SN-187365	c 35	N74-15127 *	US-PATENT-APPL-SN-200874	c 17	N88-28946 *	#
US-PATENT-APPL-SN-172961	c 37	N94-30173 *	US-PATENT-APPL-SN-187446	c 31	N70-37924 *	US-PATENT-APPL-SN-201700	c 33	N74-17930 *	
US-PATENT-APPL-SN-173081	c 28	N70-36806 *	US-PATENT-APPL-SN-187716	c 74	N88-25305 *	US-PATENT-APPL-SN-201782	c 15	N73-19458 *	
US-PATENT-APPL-SN-173178	c 33	N77-21315 *	US-PATENT-APPL-SN-187776	c 28	N70-33284 *	US-PATENT-APPL-SN-201904	c 15	N73-30458 *	
US-PATENT-APPL-SN-173185	c 23	N73-13660 *	US-PATENT-APPL-SN-18780	c 12	N70-33305 *	US-PATENT-APPL-SN-201904	c 37	N74-15128 *	
US-PATENT-APPL-SN-173190	c 05	N73-32015 *	US-PATENT-APPL-SN-188160	c 74	N82-19029 *	US-PATENT-APPL-SN-201904	c 37	N74-21064 *	
US-PATENT-APPL-SN-173518	c 60	N82-29013 *	US-PATENT-APPL-SN-188594	c 15	N70-34967 *	US-PATENT-APPL-SN-202024	c 14	N74-34156 *	
US-PATENT-APPL-SN-173519	c 44	N82-26776 *	US-PATENT-APPL-SN-188836	c 35	N74-34857 *	US-PATENT-APPL-SN-202029	c 11	N70-34786 *	
US-PATENT-APPL-SN-173520	c 31	N83-27058 *	US-PATENT-APPL-SN-188927	c 08	N73-32081 *	US-PATENT-APPL-SN-202030	c 31	N71-10747 *	
US-PATENT-APPL-SN-173524	c 35	N82-32659 *	US-PATENT-APPL-SN-188928	c 37	N74-13178 *	US-PATENT-APPL-SN-202228	c 34	N82-11399 *	#
US-PATENT-APPL-SN-173981	c 14	N70-35666 *	US-PATENT-APPL-SN-189290	c 14	N73-27379 *	US-PATENT-APPL-SN-202228	c 34	N85-29179 *	
US-PATENT-APPL-SN-174684	c 33	N75-31331 *	US-PATENT-APPL-SN-189375	c 18	N73-14584 *	US-PATENT-APPL-SN-202750	c 19	N74-21015 *	
US-PATENT-APPL-SN-175267	c 14	N73-28486 *	US-PATENT-APPL-SN-189438	c 35	N76-15431 *	US-PATENT-APPL-SN-202769	c 05	N73-27941 *	
US-PATENT-APPL-SN-175452	c 27	N81-27272 *	US-PATENT-APPL-SN-189648	c 32	N70-36536 *	US-PATENT-APPL-SN-203177	c 39	N88-25011 *	#
US-PATENT-APPL-SN-175452	c 27								

US-PATENT-APPL-SN-203411	c 33	N70-34812 *	US-PATENT-APPL-SN-219680	c 27	N82-28442 *	US-PATENT-APPL-SN-235150	c 36	N91-15528 *
US-PATENT-APPL-SN-20370	c 33	N79-33393 *	US-PATENT-APPL-SN-219681	c 24	N82-29362 *	US-PATENT-APPL-SN-235162	c 08	N71-12501 *
US-PATENT-APPL-SN-204015	c 09	N70-38201 *	US-PATENT-APPL-SN-219681	c 54	N84-11758 *	US-PATENT-APPL-SN-235266	c 26	N73-32571 *
US-PATENT-APPL-SN-205047	c 15	N73-32360 *	US-PATENT-APPL-SN-219722	c 03	N75-30132 *	US-PATENT-APPL-SN-235268	c 36	N74-15145 *
US-PATENT-APPL-SN-205470	c 08	N71-18752 *	US-PATENT-APPL-SN-219806	c 07	N74-28226 *	US-PATENT-APPL-SN-235269	c 09	N73-30181 *
US-PATENT-APPL-SN-205675	c 14	N73-30386 *	US-PATENT-APPL-SN-219968	c 33	N83-27126 *	US-PATENT-APPL-SN-235295	c 09	N73-30185 *
US-PATENT-APPL-SN-205771	c 31	N89-29578 *	US-PATENT-APPL-SN-220212	c 33	N83-31952 *	US-PATENT-APPL-SN-235332	c 07	N72-21117 *
US-PATENT-APPL-SN-205898	c 09	N90-23415 *	US-PATENT-APPL-SN-220213	c 37	N85-20337 *	US-PATENT-APPL-SN-235338	c 71	N74-31148 *
US-PATENT-APPL-SN-205899	c 35	N90-22769 *	US-PATENT-APPL-SN-220214	c 44	N82-29710 *	US-PATENT-APPL-SN-235472	c 60	N84-28492 *
US-PATENT-APPL-SN-205900	c 35	N90-22770 *	US-PATENT-APPL-SN-220251	c 37	N74-15125 *	US-PATENT-APPL-SN-235588	c 28	N71-28928 *
US-PATENT-APPL-SN-206266	c 76	N74-20329 *	US-PATENT-APPL-SN-220274	c 18	N74-22136 *	US-PATENT-APPL-SN-235796	c 35	N82-28604 *
US-PATENT-APPL-SN-206266	c 76	N75-25730 *	US-PATENT-APPL-SN-220785	c 85	N74-34672 *	US-PATENT-APPL-SN-235797	c 44	N83-32175 *
US-PATENT-APPL-SN-206279	c 02	N73-26005 *	US-PATENT-APPL-SN-221093	c 17	N73-32415 *	US-PATENT-APPL-SN-235868	c 34	N83-29625 *
US-PATENT-APPL-SN-206279	c 05	N76-29217 *	US-PATENT-APPL-SN-221276	c 14	N70-41955 *	US-PATENT-APPL-SN-235957	c 14	N73-27376 *
US-PATENT-APPL-SN-206506	c 33	N82-24422 *	US-PATENT-APPL-SN-221386	c 23	N90-21118 *	US-PATENT-APPL-SN-235962	c 36	N74-11313 *
US-PATENT-APPL-SN-206698	c 15	N73-30459 *	US-PATENT-APPL-SN-221386	c 23	N91-14418 *	US-PATENT-APPL-SN-236052	c 14	N72-25428 *
US-PATENT-APPL-SN-207135	c 35	N83-27184 *	US-PATENT-APPL-SN-221388	c 37	N90-20408 *	US-PATENT-APPL-SN-236281	c 09	N73-20232 *
US-PATENT-APPL-SN-207113	c 07	N73-30113 *	US-PATENT-APPL-SN-221472	c 54	N89-13889 *	US-PATENT-APPL-SN-236285	c 08	N73-26175 *
US-PATENT-APPL-SN-209478	c 07	N70-38200 *	US-PATENT-APPL-SN-221634	c 05	N70-34857 *	US-PATENT-APPL-SN-236748	c 14	N70-40157 *
US-PATENT-APPL-SN-209479	c 15	N70-34850 *	US-PATENT-APPL-SN-221637	c 26	N70-36805 *	US-PATENT-APPL-SN-236749	c 15	N70-40180 *
US-PATENT-APPL-SN-209535	c 28	N73-24783 *	US-PATENT-APPL-SN-221670	c 35	N77-14408 *	US-PATENT-APPL-SN-236985	c 44	N74-19692 *
US-PATENT-APPL-SN-20960	c 15	N72-17453 *	US-PATENT-APPL-SN-221685	c 35	N74-21062 *	US-PATENT-APPL-SN-237029	c 09	N73-32108 *
US-PATENT-APPL-SN-209618	c 33	N75-19520 *	US-PATENT-APPL-SN-221714	c 09	N73-32110 *	US-PATENT-APPL-SN-237035	c 35	N91-15512 *
US-PATENT-APPL-SN-209618	c 33	N75-25041 *	US-PATENT-APPL-SN-221833	c 09	N73-27150 *	US-PATENT-APPL-SN-237036	c 34	N90-20323 *
US-PATENT-APPL-SN-209801	c 08	N70-40125 *	US-PATENT-APPL-SN-221945	c 31	N70-36410 *	US-PATENT-APPL-SN-237491	c 05	N75-12930 *
US-PATENT-APPL-SN-210277	c 39	N88-30160 *	US-PATENT-APPL-SN-22265	c 14	N72-21405 *	US-PATENT-APPL-SN-237657	c 31	N90-21216 *
US-PATENT-APPL-SN-210405	c 74	N84-11921 *	US-PATENT-APPL-SN-222762	c 32	N94-29495 *	US-PATENT-APPL-SN-237694	c 35	N74-11284 *
US-PATENT-APPL-SN-210480	c 05	N90-20078 *	US-PATENT-APPL-SN-223003	c 33	N70-36846 *	US-PATENT-APPL-SN-238044	c 05	N94-36767 *
US-PATENT-APPL-SN-210486	c 26	N90-21170 *	US-PATENT-APPL-SN-223122	c 37	N91-14614 *	US-PATENT-APPL-SN-238047	c 33	N74-12951 *
US-PATENT-APPL-SN-210486	c 39	N92-28757 *	US-PATENT-APPL-SN-223124	c 31	N90-19427 *	US-PATENT-APPL-SN-238257	c 07	N84-33410 *
US-PATENT-APPL-SN-210486	c 39	N92-29101 *	US-PATENT-APPL-SN-22320	c 14	N72-11365 *	US-PATENT-APPL-SN-238263	c 35	N74-10415 *
US-PATENT-APPL-SN-210486	c 39	N92-29155 *	US-PATENT-APPL-SN-223560	c 10	N73-32144 *	US-PATENT-APPL-SN-238264	c 37	N74-21061 *
US-PATENT-APPL-SN-210487	c 35	N90-17117 *	US-PATENT-APPL-SN-223938	c 36	N94-29493 *	US-PATENT-APPL-SN-238264	c 37	N74-32921 *
US-PATENT-APPL-SN-210498	c 35	N84-12444 *	US-PATENT-APPL-SN-223953	c 63	N94-29492 *	US-PATENT-APPL-SN-238264	c 37	N76-15461 *
US-PATENT-APPL-SN-210506	c 39	N83-32081 *	US-PATENT-APPL-SN-224231	c 06	N83-10040 *	US-PATENT-APPL-SN-238421	c 28	N71-29153 *
US-PATENT-APPL-SN-210632	c 26	N83-10170 *	US-PATENT-APPL-SN-224231	c 06	N84-34443 *	US-PATENT-APPL-SN-238767	c 24	N94-36752 *
US-PATENT-APPL-SN-211332	c 02	N74-10034 *	US-PATENT-APPL-SN-224232	c 36	N83-29680 *	US-PATENT-APPL-SN-238785	c 44	N83-14693 *
US-PATENT-APPL-SN-211411	c 11	N73-20267 *	US-PATENT-APPL-SN-224489	c 31	N74-18089 *	US-PATENT-APPL-SN-238786	c 37	N82-26078 *
US-PATENT-APPL-SN-211464	c 28	N70-36910 *	US-PATENT-APPL-SN-225427	c 37	N91-15544 *	US-PATENT-APPL-SN-238790	c 44	N82-29708 *
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US-PATENT-APPL-SN-212165	c 14	N73-25460 *	US-PATENT-APPL-SN-225501	c 44	N82-28780 *	US-PATENT-APPL-SN-238826	c 28	N77-10213 *
US-PATENT-APPL-SN-212173	c 02	N71-13421 *	US-PATENT-APPL-SN-226476	c 10	N73-32143 *	US-PATENT-APPL-SN-238887	c 37	N81-22360 *
US-PATENT-APPL-SN-212174	c 15	N70-34859 *	US-PATENT-APPL-SN-226477	c 74	N74-27866 *	US-PATENT-APPL-SN-238888	c 37	N84-28082 *
US-PATENT-APPL-SN-212496	c 03	N70-36803 *	US-PATENT-APPL-SN-226551	c 06	N73-26100 *	US-PATENT-APPL-SN-239259	c 27	N90-23546 *
US-PATENT-APPL-SN-212497	c 11	N71-28779 *	US-PATENT-APPL-SN-227682	c 14	N70-34161 *	US-PATENT-APPL-SN-239260	c 37	N89-12867 *
US-PATENT-APPL-SN-21263	c 01	N71-12217 *	US-PATENT-APPL-SN-227683	c 02	N70-36804 *	US-PATENT-APPL-SN-239573	c 33	N74-10223 *
US-PATENT-APPL-SN-212900	c 14	N73-25462 *	US-PATENT-APPL-SN-227692	c 14	N70-40003 *	US-PATENT-APPL-SN-239574	c 09	N73-32107 *
US-PATENT-APPL-SN-212921	c 07	N73-20176 *	US-PATENT-APPL-SN-227877	c 25	N76-18245 *	US-PATENT-APPL-SN-239575	c 09	N74-19528 *
US-PATENT-APPL-SN-212949	c 35	N83-35338 *	US-PATENT-APPL-SN-228049	c 37	N79-33467 *	US-PATENT-APPL-SN-239576	c 33	N74-14935 *
US-PATENT-APPL-SN-212977	c 15	N73-30460 *	US-PATENT-APPL-SN-228150	c 05	N73-32013 *	US-PATENT-APPL-SN-239577	c 35	N74-13132 *
US-PATENT-APPL-SN-213004	c 14	N73-19421 *	US-PATENT-APPL-SN-228163	c 44	N74-19693 *	US-PATENT-APPL-SN-239803	c 70	N74-13436 *
US-PATENT-APPL-SN-213392	c 27	N90-23566 *	US-PATENT-APPL-SN-228189	c 35	N74-11283 *	US-PATENT-APPL-SN-240760	c 15	N71-16075 *
US-PATENT-APPL-SN-213558	c 51	N91-30667 *	US-PATENT-APPL-SN-228190	c 23	N73-30666 *	US-PATENT-APPL-SN-241061	c 06	N72-27151 *
US-PATENT-APPL-SN-213558	c 51	N92-34429 *	US-PATENT-APPL-SN-228229	c 27	N77-31308 *	US-PATENT-APPL-SN-241061	c 06	N73-33076 *
US-PATENT-APPL-SN-213558	c 51	N92-34431 *	US-PATENT-APPL-SN-228507	c 11	N70-38182 *	US-PATENT-APPL-SN-241085	c 14	N70-40238 *
US-PATENT-APPL-SN-213558	c 51	N93-10110 *	US-PATENT-APPL-SN-228569	c 14	N71-16014 *	US-PATENT-APPL-SN-241154	c 04	N84-27713 *
US-PATENT-APPL-SN-213558	c 51	N94-35232 *	US-PATENT-APPL-SN-229128	c 14	N73-28490 *	US-PATENT-APPL-SN-241155	c 27	N84-14324 *
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US-PATENT-APPL-SN-213559	c 51	N92-34229 *	US-PATENT-APPL-SN-229231	c 33	N77-26387 *	US-PATENT-APPL-SN-24154	c 15	N72-17450 *
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US-PATENT-APPL-SN-342857	c 72	N84-28575 *	US-PATENT-APPL-SN-358127	c 05	N71-12335 *	US-PATENT-APPL-SN-370989	c 23	N71-29049 *
US-PATENT-APPL-SN-342871	c 27	N84-33589 *	US-PATENT-APPL-SN-358213	c 52	N92-11621 *	US-PATENT-APPL-SN-370999	c 74	N78-15879 *
US-PATENT-APPL-SN-343308	c 19	N74-29410 *	US-PATENT-APPL-SN-358398	c 36	N84-22944 *	US-PATENT-APPL-SN-371322	c 44	N76-14600 *
US-PATENT-APPL-SN-343425	c 11	N70-35383 *	US-PATENT-APPL-SN-358939	c 32	N74-30523 *	US-PATENT-APPL-SN-371351	c 76	N84-35113 *
US-PATENT-APPL-SN-343426	c 07	N71-20814 *	US-PATENT-APPL-SN-359156	c 14	N75-24794 *	US-PATENT-APPL-SN-371352	c 52	N84-11744 *
US-PATENT-APPL-SN-343607	c 18	N74-27397 *	US-PATENT-APPL-SN-359157	c 35	N74-18090 *	US-PATENT-APPL-SN-371856	c 15	N70-42033 *
US-PATENT-APPL-SN-343652	c 33	N91-14537 *	US-PATENT-APPL-SN-359382	c 32	N85-34327 *	US-PATENT-APPL-SN-371857	c 07	N70-41680 *
US-PATENT-APPL-SN-343656	c 76	N91-14872 *	US-PATENT-APPL-SN-359388	c 44	N82-32177 *	US-PATENT-APPL-SN-372148	c 35	N74-26949 *
US-PATENT-APPL-SN-343760	c 07	N71-28979 *	US-PATENT-APPL-SN-359459	c 36	N89-28817 #	US-PATENT-APPL-SN-372149	c 37	N75-15050 *
US-PATENT-APPL-SN-344410	c 07	N74-33218 *	US-PATENT-APPL-SN-359460	c 36	N92-31788 *	US-PATENT-APPL-SN-372279	c 35	N84-28019 *
US-PATENT-APPL-SN-344793	c 03	N71-11058 *	US-PATENT-APPL-SN-359532	c 15	N71-28959 *	US-PATENT-APPL-SN-372438	c 30	N71-17788 *
US-PATENT-APPL-SN-344872	c 18	N91-27201 *	US-PATENT-APPL-SN-359626	c 35	N84-28018 *	US-PATENT-APPL-SN-372648	c 27	N71-16348 *
US-PATENT-APPL-SN-344877	c 24	N90-15487 #	US-PATENT-APPL-SN-359627	c 35	N82-26631 #	US-PATENT-APPL-SN-372727	c 31	N70-36845 *
US-PATENT-APPL-SN-345372	c 33	N74-22814 *	US-PATENT-APPL-SN-359627	c 35	N85-29214 *	US-PATENT-APPL-SN-372730	c 28	N71-28850 *
US-PATENT-APPL-SN-346356	c 14	N70-41676 *	US-PATENT-APPL-SN-359801	c 74	N91-27957 *	US-PATENT-APPL-SN-373587	c 33	N74-32711 *
US-PATENT-APPL-SN-346361	c 37	N74-21064 *	US-PATENT-APPL-SN-359957	c 07	N74-32418 *	US-PATENT-APPL-SN-373588	c 33	N75-19515 *
US-PATENT-APPL-SN-346372	c 35	N75-12270 *	US-PATENT-APPL-SN-359958	c 37	N74-26976 *	US-PATENT-APPL-SN-373591	c 31	N71-15692 *
US-PATENT-APPL-SN-346483	c 37	N74-32921 *	US-PATENT-APPL-SN-360180	c 17	N71-16026 *	US-PATENT-APPL-SN-373770	c 35	N84-34705 *
US-PATENT-APPL-SN-346483	c 37	N76-15461 *	US-PATENT-APPL-SN-360182	c 31	N70-36654 *	US-PATENT-APPL-SN-373771	c 35	N84-22934 *
US-PATENT-APPL-SN-347101	c 09	N70-41675 *	US-PATENT-APPL-SN-360878	c 03	N71-11051 *	US-PATENT-APPL-SN-373839	c 33	N84-22887 *
US-PATENT-APPL-SN-347558	c 27	N91-31307 *	US-PATENT-APPL-SN-361200	c 18	N89-28556 #	US-PATENT-APPL-SN-374421	c 32	N76-24405 *
US-PATENT-APPL-SN-347591	c 25	N91-31258 *	US-PATENT-APPL-SN-361215	c 27	N84-14323 *	US-PATENT-APPL-SN-374422	c 27	N75-24982 *
US-PATENT-APPL-SN-347626	c 15	N70-40204 *	US-PATENT-APPL-SN-361216	c 35	N84-28016 *	US-PATENT-APPL-SN-374423	c 36	N75-31427 *
US-PATENT-APPL-SN-347952	c 37	N75-13265 *	US-PATENT-APPL-SN-361217	c 71	N85-22104 *	US-PATENT-APPL-SN-374424	c 74	N75-12732 *
US-PATENT-APPL-SN-347953	c 05	N75-24716 *	US-PATENT-APPL-SN-361471	c 27	N92-34160 *	US-PATENT-APPL-SN-374441	c 35	N75-19616 *
US-PATENT-APPL-SN-347960	c 03	N70-39930 *	US-PATENT-APPL-SN-361471	c 27	N94-23311 *	US-PATENT-APPL-SN-374583	c 33	N74-29556 *
US-PATENT-APPL-SN-348223	c 34	N91-31596 *	US-PATENT-APPL-SN-361479	c 14	N91-21175 *	US-PATENT-APPL-SN-374810	c 27	N80-32514 *
US-PATENT-APPL-SN-348422	c 27	N76-15311 *	US-PATENT-APPL-SN-361531	c 35	N89-28795 #	US-PATENT-APPL-SN-375401	c 17	N71-16025 *
US-PATENT-APPL-SN-348600	c 28	N71-29154 *	US-PATENT-APPL-SN-361666	c 33	N75-30428 *	US-PATENT-APPL-SN-375405	c 31	N71-15675 *
US-PATENT-APPL-SN-348787	c 33	N75-19521 *	US-PATENT-APPL-SN-361711	c 24	N82-26387 #	US-PATENT-APPL-SN-375620	c 43	N85-21723 *
US-PATENT-APPL-SN-349778	c 09	N70-40234 *	US-PATENT-APPL-SN-361711	c 24	N84-16262 *	US-PATENT-APPL-SN-375674	c 28	N70-41582 *
US-PATENT-APPL-SN-349781	c 31	N71-15647 *	US-PATENT-APPL-SN-361906	c 33	N74-20861 *	US-PATENT-APPL-SN-375680	c 10	N71-28739 *
US-PATENT-APPL-SN-349782	c 09	N71-16086 *	US-PATENT-APPL-SN-361907	c 35	N74-27865 *	US-PATENT-APPL-SN-375682	c 31	N70-41588 *
US-PATENT-APPL-SN-34989	c 36	N74-13205 *	US-PATENT-APPL-SN-362145	c 32	N75-26194 *	US-PATENT-APPL-SN-375684	c 44	N85-21769 *
US-PATENT-APPL-SN-350249	c 36	N75-15028 *	US-PATENT-APPL-SN-362146	c 33	N75-18479 *	US-PATENT-APPL-SN-375784	c 24	N85-21266 *
US-PATENT-APPL-SN-350250	c 27	N75-27160 *	US-PATENT-APPL-SN-362261	c 14	N73-32325 *	US-PATENT-APPL-SN-375784	c 24	N85-35233 *
US-PATENT-APPL-SN-350300	c 31	N74-32920 *	US-PATENT-APPL-SN-362278	c 37	N78-17385 *	US-PATENT-APPL-SN-376306	c 25	N84-12262 *
US-PATENT-APPL-SN-350471	c 35	N85-29213 *	US-PATENT-APPL-SN-363130	c 25	N81-19244 *	US-PATENT-APPL-SN-376487	c 25	N89-28603 #
US-PATENT-APPL-SN-350472	c 33	N84-14424 *	US-PATENT-APPL-SN-363348	c 05	N70-41581 *	US-PATENT-APPL-SN-376487	c 25	N92-28728 *
US-PATENT-APPL-SN-350473	c 07	N84-22559 *	US-PATENT-APPL-SN-363653	c 07	N70-41331 *	US-PATENT-APPL-SN-376488	c 75	N91-25875 *
US-PATENT-APPL-SN-350474	c 35	N84-22928 *	US-PATENT-APPL-SN-363654	c 07	N70-41372 *	US-PATENT-APPL-SN-376738	c 35	N92-21723 *
US-PATENT-APPL-SN-350475	c 35	N84-28017 *	US-PATENT-APPL-SN-363691	c 20	N76-14190 *	US-PATENT-APPL-SN-377146	c 14	N71-23041 *
US-PATENT-APPL-SN-350476	c 26	N84-22734 *	US-PATENT-APPL-SN-363807	c 35	N91-27522 *	US-PATENT-APPL-SN-377177	c 32	N70-42003 *
US-PATENT-APPL-SN-350477	c 35	N84-33765 *	US-PATENT-APPL-SN-363815	c 33	N91-21434 *	US-PATENT-APPL-SN-377780	c 11	N71-10604 *
US-PATENT-APPL-SN-350813	c 32	N92-21712 *	US-PATENT-APPL-SN-364041	c 76	N85-30923 *	US-PATENT-APPL-SN-377784	c 28	N70-41311 *
US-PATENT-APPL-SN-351259	c 15	N71-10672 *	US-PATENT-APPL-SN-364072	c 70	N84-28565 *	US-PATENT-APPL-SN-377891	c 52	N84-34913 *
US-PATENT-APPL-SN-351929	c 33	N75-14957 *	US-PATENT-APPL-SN-364092	c 76	N83-35888 *	US-PATENT-APPL-SN-377892	c 33	N83-24763 *
US-PATENT-APPL-SN-351950	c 33	N75-27249 *	US-PATENT-APPL-SN-364093	c 37	N83-34323 *	US-PATENT-APPL-SN-378080	c 12	N71-24692 *
US-PATENT-APPL-SN-352381	c 20	N75-18310 *	US-PATENT-APPL-SN-364094	c 37	N84-28083 *	US-PATENT-APPL-SN-378126	c 44	N76-18643 *
US-PATENT-APPL-SN-352381	c 37	N76-14461 *	US-PATENT-APPL-SN-364097	c 71	N82-27086 #	US-PATENT-APPL-SN-378127	c 44	N76-18641 *
US-PATENT-APPL-SN-352382	c 60	N75-13539 *	US-PATENT-APPL-SN-364126	c 36	N84-22943 *	US-PATENT-APPL-SN-378533	c 37	N84-11497 *
US-PATENT-APPL-SN-352383	c 35	N75-16783 *	US-PATENT-APPL-SN-364743	c 37	N91-14608 *	US-PATENT-APPL-SN-378535	c 74	N84-23248 *
US-PATENT-APPL-SN-352400	c 26	N71-10607 *	US-PATENT-APPL-SN-364774	c 37	N91-14616 *	US-PATENT-APPL-SN-378548	c 54	N91-31803 #
US-PATENT-APPL-SN-352821	c 44	N84-28205 *	US-PATENT-APPL-SN-364867	c 09	N71-10673 *	US-PATENT-APPL-SN-379019	c 09	N75-12969 *
US-PATENT-APPL-SN-352827	c 35	N84-28015 *	US-PATENT-APPL-SN-365244	c 37	N78-17386 *	US-PATENT-APPL-SN-379049	c 31	N75-11311 *
US-PATENT-APPL-SN-352827	c 35	N85-21598 *	US-PATENT-APPL-SN-36531	c 07	N72-25174 *	US-PATENT-APPL-SN-379072	c 15	N71-16078 *
US-PATENT-APPL-SN-352831	c 35	N84-16523 *	US-PATENT-APPL-SN-36534	c 21	N73-14692 *	US-PATENT-APPL-SN-379417	c 02	N70-41863 *
US-PATENT-APPL-SN-353162	c 33	N75-26243 *	US-PATENT-APPL-SN-36554	c 35	N77-27367 *	US-PATENT-APPL-SN-379601	c 71	N85-30765 *
US-PATENT-APPL-SN-353411	c 37	N89-28846 #	US-PATENT-APPL-SN-365644	c 35	N74-26946 *	US-PATENT-APPL-SN-379602	c 44	N84-23018 *
US-PATENT-APPL-SN-353632	c 15	N71-13789 *	US-PATENT-APPL-SN-365950	c 27	N83-18908 *	US-PATENT-APPL-SN-379768	c 28	N71-10780 *
US-PATENT-APPL-SN-353634	c 15	N70-41829 *	US-PATENT-APPL-SN-366025	c 27	N84-22744 *	US-PATENT-APPL-SN-379771	c 33	N71-28852 *
US-PATENT-APPL-SN-353637	c 02	N70-34160 *	US-PATENT-APPL-SN-366103	c 76	N84-35112 #	US-PATENT-APPL-SN-380046	c 25	N76-29379 *
US-PATENT-APPL-SN-353644	c 07	N71-23098 *	US-PATENT-APPL-SN-366205	c 35	N91-14590 *	US-PATENT-APPL-SN-380630	c 37	N75-21631 *
US-PATENT-APPL-SN-353645	c 15	N71-15922 *	US-PATENT-APPL-SN-366226	c 10	N71-16057 *	US-PATENT-APPL-SN-380960	c 15	N70-41993 *
US-PATENT-APPL-SN-354060	c 74	N76-19935 *	US-PATENT-APPL-SN-366957	c 27	N90-10261 #	US-PATENT-APPL-SN-380965	c 10	N71-23033 *
US-PATENT-APPL-SN-354126	c 37	N82-22496 #	US-PATENT-APPL-SN-367132	c 32	N85-21427 *	US-PATENT-APPL-SN-381239	c 09	N91-21157 *
US-PATENT-APPL-SN-354182	c 10	N71-20841 *	US-PATENT-APPL-SN-367134	c 44	N83-34449 *	US-PATENT-APPL-SN-381240	c 27	N91-25296 *
US-PATENT-APPL-SN-354406	c 52	N76-14757 *	US-PATENT-APPL-SN-367136	c 35	N85-21596 *	US-PATENT-APPL-SN-381940	c 09	N71-20705 *
US-PATENT-APPL-SN-354407	c 33	N74-22865 *	US-PATENT-APPL-SN-367187	c 04	N84-14132 *	US-PATENT-APPL-SN-382261	c 35	N76-14430 *
US-PATENT-APPL-SN-354408	c 35	N75-19614 *	US-PATENT-APPL-SN-367268	c 05	N75-25914 *	US-PATENT-APPL-SN-382262	c 37	N74-21058 *
US-PATENT-APPL-SN-354611	c 25	N74-26947 *	US-PATENT-APPL-SN-367293	c 36	N75-19655 *	US-PATENT-APPL-SN-38262	c 28	N70-35422 #
US-PATENT-APPL-SN-354612	c 35	N75-30504 *	US-PATENT-APPL-SN-367294	c 76	N75-12810 *	US-PATENT-APPL-SN-382885	c 14	N91-27175 *
US-PATENT-APPL-SN-355126	c 17	N71-15644 *	US-PATENT-APPL-SN-367606	c 75	N75-13625 *	US-PATENT-APPL-SN-382976	c 15	N71-21179 *
US-PATENT-APPL-SN-355129	c 14	N70-41957 *	US-PATENT-APPL-SN-367606	c 75	N76-17951 *	US-PATENT-APPL-SN-383063	c 37	N84-12493 *
US-PATENT-APPL-SN-355130	c 15	N70-40354 *	US-PATENT-APPL-SN-368123	c 09	N71-10618 *	US-PATENT-APPL-SN-383068	c 44	N84-34792 *
US-PATENT-APPL-SN-355488	c 08	N71-19544 *	US-PATENT-APPL-SN-368187	c 54	N84-11758 *	US-PATENT-APPL-SN-383083	c 33	N84-16453 *
US-PATENT-APPL-SN-355554	c 24	N75-33181 *	US-PATENT-APPL-SN-368188	c 33	N84-33663 *	US-PATENT-APPL-SN-383086	c 36	N85-21639 *
US-PATENT-APPL-SN-355555	c 37	N75-19685 *	US-PATENT-APPL-SN-368189	c 18	N84-22605 *	US-PATENT-APPL-SN-383384	c 06	N84-27733 *
US-PATENT-APPL-SN-355664	c 31	N75-12161 *	US-PATENT-APPL-SN-368191	c 23	N72-22673 *	US-PATENT-APPL-SN-384010	c 10	N71-28859 *
US-PATENT-APPL-SN-355692	c 15	N70-41371 *	US-PATENT-APPL-SN-369171	c 36	N93-18287 *	US-PATENT-APPL-SN-384547	c 36	N85-29264 *
US-PATENT-APPL-SN-357126	c 35	N74-34857 *	US-PATENT-APPL-SN-369626	c 28	N72-23810 *	US-PATENT-APPL-SN-384773	c 15	N76-14158 *
US-PATENT-APPL-SN-357312	c 27	N76-16229 *	US-PATENT-APPL-SN-369334	c 21	N71-22880 *	US-PATENT-APPL-SN-384811	c 15	N71-10809 *
US-PATENT-APPL-SN-357334	c 03	N71-12258 *	US-PATENT-APPL-SN-369336	c 09	N71-10659 *	US-PATENT-APPL-SN-385013	c 35	N75-19613 *
US-PATENT-APPL-SN-357336	c 03	N71-12259 *	US-PATENT-APPL-SN-369337	c 15	N70-41811 *	US-PATENT-APPL-SN-385059	c 33	N77-21315 *

US-PATENT-APPL-SN-385526	c 12	N71-16031 *	US-PATENT-APPL-SN-395895	c 36	N78-17366 *	US-PATENT-APPL-SN-411944	c 15	N70-41629 *
US-PATENT-APPL-SN-385527	c 31	N71-17729 *	US-PATENT-APPL-SN-396262	c 31	N91-14508 *	US-PATENT-APPL-SN-411945	c 18	N71-23047 *
US-PATENT-APPL-SN-385530	c 09	N71-10798 *	US-PATENT-APPL-SN-396263	c 35	N90-23712 *	US-PATENT-APPL-SN-411949	c 27	N71-15635 *
US-PATENT-APPL-SN-386172	c 24	N91-14430 *	US-PATENT-APPL-SN-396443	c 15	N71-15586 *	US-PATENT-APPL-SN-412039	c 06	N84-34443 *
US-PATENT-APPL-SN-386174	c 75	N90-10717 *	US-PATENT-APPL-SN-396444	c 10	N71-20782 *	US-PATENT-APPL-SN-412079	c 37	N75-13266 *
US-PATENT-APPL-SN-386175	c 35	N92-31790 *	US-PATENT-APPL-SN-396726	c 35	N91-15511 *	US-PATENT-APPL-SN-412080	c 36	N75-19653 *
US-PATENT-APPL-SN-386467	c 14	N70-40233 *	US-PATENT-APPL-SN-396726	c 35	N91-21495 *	US-PATENT-APPL-SN-412379	c 32	N77-10392 *
US-PATENT-APPL-SN-386789	c 35	N75-12271 *	US-PATENT-APPL-SN-397281	c 76	N83-34796 *	US-PATENT-APPL-SN-413101	c 07	N86-20389 *
US-PATENT-APPL-SN-386790	c 09	N75-12968 *	US-PATENT-APPL-SN-397476	c 34	N75-12222 *	US-PATENT-APPL-SN-413445	c 09	N72-29172 *
US-PATENT-APPL-SN-386793	c 35	N75-25124 *	US-PATENT-APPL-SN-397477	c 33	N75-19517 *	US-PATENT-APPL-SN-41346	c 15	N72-24522 *
US-PATENT-APPL-SN-386800	c 15	N71-21404 *	US-PATENT-APPL-SN-397478	c 52	N75-33640 *	US-PATENT-APPL-SN-41347	c 09	N72-25256 *
US-PATENT-APPL-SN-387094	c 37	N77-19457 *	US-PATENT-APPL-SN-39755	c 08	N72-21188 *	US-PATENT-APPL-SN-41348	c 09	N72-23173 *
US-PATENT-APPL-SN-387095	c 37	N75-33395 *	US-PATENT-APPL-SN-397665	c 10	N70-41991 *	US-PATENT-APPL-SN-413661	c 15	N71-23024 *
US-PATENT-APPL-SN-387266	c 35	N75-27328 *	US-PATENT-APPL-SN-398131	c 05	N70-41297 *	US-PATENT-APPL-SN-413662	c 09	N70-41929 *
US-PATENT-APPL-SN-387332	c 15	N70-33226 *	US-PATENT-APPL-SN-398132	c 15	N70-41808 *	US-PATENT-APPL-SN-414042	c 35	N79-17192 *
US-PATENT-APPL-SN-387342	c 37	N76-18457 *	US-PATENT-APPL-SN-398885	c 27	N76-15310 *	US-PATENT-APPL-SN-414043	c 27	N76-32315 *
US-PATENT-APPL-SN-387646	c 37	N85-30336 *	US-PATENT-APPL-SN-398886	c 07	N75-24736 *	US-PATENT-APPL-SN-41404	c 03	N73-20039 *
US-PATENT-APPL-SN-387647	c 33	N85-34333 *	US-PATENT-APPL-SN-398901	c 37	N75-25186 *	US-PATENT-APPL-SN-414106	c 54	N84-16803 *
US-PATENT-APPL-SN-387648	c 37	N85-21650 *	US-PATENT-APPL-SN-399074	c 33	N88-14271 *	US-PATENT-APPL-SN-414107	c 35	N84-22932 *
US-PATENT-APPL-SN-387649	c 09	N85-19990 *	US-PATENT-APPL-SN-399419	c 21	N71-23289 *	US-PATENT-APPL-SN-414237	c 35	N85-30282 *
US-PATENT-APPL-SN-387728	c 37	N84-28084 *	US-PATENT-APPL-SN-400467	c 33	N75-30431 *	US-PATENT-APPL-SN-41430	c 10	N72-20221 *
US-PATENT-APPL-SN-387928	c 76	N90-17456 *	US-PATENT-APPL-SN-400613	c 15	N71-21528 *	US-PATENT-APPL-SN-41431	c 37	N77-27400 *
US-PATENT-APPL-SN-387928	c 76	N92-22040 *	US-PATENT-APPL-SN-400617	c 31	N71-17629 *	US-PATENT-APPL-SN-414482	c 10	N71-10578 *
US-PATENT-APPL-SN-387928	c 76	N92-22041 *	US-PATENT-APPL-SN-400857	c 31	N79-21225 *	US-PATENT-APPL-SN-41455	c 02	N70-33255 *
US-PATENT-APPL-SN-388023	c 10	N70-41964 *	US-PATENT-APPL-SN-401224	c 38	N78-17396 *	US-PATENT-APPL-SN-414811	c 32	N92-22033 *
US-PATENT-APPL-SN-388024	c 32	N71-17609 *	US-PATENT-APPL-SN-401225	c 38	N78-17395 *	US-PATENT-APPL-SN-414812	c 35	N90-17104 *
US-PATENT-APPL-SN-38814	c 15	N72-11385 *	US-PATENT-APPL-SN-401282	c 18	N85-29991 *	US-PATENT-APPL-SN-414815	c 33	N91-26438 *
US-PATENT-APPL-SN-38816	c 70	N74-13436 *	US-PATENT-APPL-SN-401288	c 37	N84-28081 *	US-PATENT-APPL-SN-414816	c 37	N91-14617 *
US-PATENT-APPL-SN-38816	c 74	N78-15879 *	US-PATENT-APPL-SN-401466	c 09	N75-24758 *	US-PATENT-APPL-SN-414820	c 33	N94-23820 *
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US-PATENT-APPL-SN-888434	c 51	N83-27569 *	US-PATENT-APPL-SN-904513	c 33	N88-14270 *	US-PATENT-APPL-SN-929553	c 26	N92-34239 *	#
US-PATENT-APPL-SN-889003	c 34	N94-20588 *	US-PATENT-APPL-SN-904550	c 74	N92-30104 *	US-PATENT-APPL-SN-929556	c 54	N92-34210 *	#
US-PATENT-APPL-SN-889003	c 34	N94-29740 *	US-PATENT-APPL-SN-904812	c 37	N88-14359 *	US-PATENT-APPL-SN-929862	c 02	N89-12551 *	
US-PATENT-APPL-SN-889374	c 08	N72-25207 *	US-PATENT-APPL-SN-905061	c 63	N94-29756 *	US-PATENT-APPL-SN-929865	c 18	N89-12621 *	
US-PATENT-APPL-SN-889375	c 10	N72-20222 *	US-PATENT-APPL-SN-905708	c 27	N94-23075 *	US-PATENT-APPL-SN-929869	c 35	N87-23941 *	#
US-PATENT-APPL-SN-889376	c 18	N71-26285 *	US-PATENT-APPL-SN-905955	c 03	N72-20031 *	US-PATENT-APPL-SN-929869	c 52	N90-21519 *	
US-PATENT-APPL-SN-889387	c 09	N71-29035 *	US-PATENT-APPL-SN-906297	c 44	N79-14529 *	US-PATENT-APPL-SN-929869	c 52	N92-11621 *	
US-PATENT-APPL-SN-889420	c 14	N72-25413 *	US-PATENT-APPL-SN-906298	c 76	N80-18951 *	US-PATENT-APPL-SN-929875	c 18	N88-28958 *	
US-PATENT-APPL-SN-889422	c 09	N72-25259 *	US-PATENT-APPL-SN-906299	c 27	N80-16158 *	US-PATENT-APPL-SN-929875	c 18	N89-28554 *	
US-PATENT-APPL-SN-889423	c 10	N72-22236 *	US-PATENT-APPL-SN-907421	c 37	N81-14318 *	US-PATENT-APPL-SN-929876	c 32	N91-14523 *	
US-PATENT-APPL-SN-889437	c 15	N72-11392 *	US-PATENT-APPL-SN-907431	c 37	N81-25370 *	US-PATENT-APPL-SN-930217	c 25	N88-24732 *	
US-PATENT-APPL-SN-889438	c 15	N72-18477 *	US-PATENT-APPL-SN-907435	c 27	N80-10358 *	US-PATENT-APPL-SN-931090	c 37	N80-26658 *	
US-PATENT-APPL-SN-889478	c 08	N71-29138 *	US-PATENT-APPL-SN-907436	c 37	N80-14398 *	US-PATENT-APPL-SN-931090	c 37	N82-19540 *	
US-PATENT-APPL-SN-889479	c 14	N72-17325 *	US-PATENT-APPL-SN-907479	c 27	N80-24438 *	US-PATENT-APPL-SN-931217	c 37	N80-32716 *	
US-PATENT-APPL-SN-889551	c 21	N72-21624 *	US-PATENT-APPL-SN-908677	c 63	N92-30085 *	US-PATENT-APPL-SN-931218	c 20	N80-18097 *	
US-PATENT-APPL-SN-889554	c 15	N72-20444 *	US-PATENT-APPL-SN-909100	c 37	N79-28550 *	US-PATENT-APPL-SN-931468	c 37	N94-29428 *	
US-PATENT-APPL-SN-889555	c 09	N72-17154 *	US-PATENT-APPL-SN-909235	c 07	N81-19115 *	US-PATENT-APPL-SN-931942	c 51	N93-17049 *	#
US-PATENT-APPL-SN-889556	c 14	N72-18411 *	US-PATENT-APPL-SN-909345	c 27	N94-35502 *	US-PATENT-APPL-SN-933186	c 27	N80-32515 *	
US-PATENT-APPL-SN-889557	c 11	N72-17183 *	US-PATENT-APPL-SN-909608	c 07	N81-19116 *	US-PATENT-APPL-SN-93329	c 09	N73-26195 *	
US-PATENT-APPL-SN-889558	c 15	N72-22491 *	US-PATENT-APPL-SN-910707	c 32	N80-20448 *	US-PATENT-APPL-SN-933941	c 33	N89-14385 *	
US-PATENT-APPL-SN-889572	c 37	N94-29427 *	US-PATENT-APPL-SN-910708	c 06	N80-18036 *	US-PATENT-APPL-SN-933961	c 76	N87-29360 *	
US-PATENT-APPL-SN-889577	c 33	N93-26104 *	US-PATENT-APPL-SN-910793	c 44	N80-16452 *	US-PATENT-APPL-SN-933962	c 25	N88-29002 *	
US-PATENT-APPL-SN-889583	c 15	N72-21464 *	US-PATENT-APPL-SN-910794	c 14	N81-26181 *	US-PATENT-APPL-SN-933963	c 05	N88-28914 *	
US-PATENT-APPL-SN-889584	c 08	N72-31226 *	US-PATENT-APPL-SN-910992	c 52	N81-24711 *	US-PATENT-APPL-SN-934078	c 74	N93-14404 *	#
US-PATENT-APPL-SN-889670	c 39	N79-22537 *	US-PATENT-APPL-SN-91180	c 14	N70-40240 *	US-PATENT-APPL-SN-934397	c 18	N88-23827 *	
US-PATENT-APPL-SN-889671	c 24	N81-14000 *	US-PATENT-APPL-SN-911851	c 29	N87-18679 *	US-PATENT-APPL-SN-934576	c 35	N80-18358 *	
US-PATENT-APPL-SN-889671	c 24	N81-33235 *	US-PATENT-APPL-SN-912276	c 24	N81-29163 *	US-PATENT-APPL-SN-934988	c 20	N94-20496 *	
US-PATENT-APPL-SN-889682	c 15	N72-25447 *	US-PATENT-APPL-SN-912401	c 27	N94-20359 *	US-PATENT-APPL-SN-935827	c 37	N80-18393 *	
US-PATENT-APPL-SN-890445	c 18	N87-27713 *	US-PATENT-APPL-SN-912953	c 54	N94-35115 *	US-PATENT-APPL-SN-936376	c 76	N94-20528 *	
US-PATENT-APPL-SN-890575	c 09	N87-25334 *	US-PATENT-APPL-SN-912955	c 37	N94-10654 *	US-PATENT-APPL-SN-936417	c 74	N94-10657 *	
US-PATENT-APPL-SN-890577	c 27	N88-29040 *	US-PATENT-APPL-SN-912956	c 33	N94-29426 *	US-PATENT-APPL-SN-93714	c 44	N82-28780 *	
US-PATENT-APPL-SN-890586	c 32	N87-15390 *	US-PATENT-APPL-SN-912960	c 27	N93-11912 *	US-PATENT-APPL-SN-937325	c 54	N93-17087 *	#
US-PATENT-APPL-SN-890683	c 37	N88-23981 *	US-PATENT-APPL-SN-912961	c 76	N94-23972 *	US-PATENT-APPL-SN-937335	c 63	N93-11714 *	#
US-PATENT-APPL-SN-890982	c 35	N88-29150 *	US-PATENT-APPL-SN-913432	c 18	N88-23828 *	US-PATENT-APPL-SN-938293	c 32	N80-32605 *	
US-PATENT-APPL-SN-891243	c 44	N79-25482 *	US-PATENT-APPL-SN-913433	c 33	N87-15413 *	US-PATENT-APPL-SN-938297	c 25	N81-14015 *	
US-PATENT-APPL-SN-891244	c 05	N79-24976 *	US-PATENT-APPL-SN-913433	c 74	N93-13711 *	US-PATENT-APPL-SN-938298	c 33	N81-17348 *	
US-PATENT-APPL-SN-891356	c 35	N80-18359 *	US-PATENT-APPL-SN-913446	c 37	N87-15465 *	US-PATENT-APPL-SN-938299	c 33	N81-19389 *	
US-PATENT-APPL-SN-891358	c 44	N80-14474 *	US-PATENT-APPL-SN-914260	c 44	N79-26474 *	US-PATENT-APPL-SN-938300	c 37	N80-23654 *	
US-PATENT-APPL-SN-891370	c 20	N79-20179 *	US-PATENT-APPL-SN-915050	c 44	N81-12542 *	US-PATENT-APPL-SN-938577	c 37	N93-18888 *	
US-PATENT-APPL-SN-891372	c 37	N79-22474 *	US-PATENT-APPL-SN-915567	c 37	N94-29556 *	US-PATENT-APPL-SN-938579	c 76	N80-32244 *	
US-PATENT-APPL-SN-891373	c 31	N80-18231 *	US-PATENT-APPL-SN-915567	c 35	N94-29726 *	US-PATENT-APPL-SN-938581	c 04	N80-32359 *	
US-PATENT-APPL-SN-891604	c 60	N92-30541 *	US-PATENT-APPL-SN-91642	c 14	N72-31446 *	US-PATENT-APPL-SN-938582	c 37	N80-23653 *	
US-PATENT-APPL-SN-891872	c 25	N82-24312 *	US-PATENT-APPL-SN-916654	c 07	N81-29129 *	US-PATENT-APPL-SN-939791	c 51	N94-35232 *	
US-PATENT-APPL-SN-892053	c 37	N94-23822 *	US-PATENT-APPL-SN-916655	c 44	N80-14472 *	US-PATENT-APPL-SN-940420	c 35	N93-17077 *	#
US-PATENT-APPL-SN-892054	c 24	N93-11543 *	US-PATENT-APPL-SN-917125	c 35	N89-12048 *	US-PATENT-APPL-SN-94049	c 14	N73-20476 *	
US-PATENT-APPL-SN-892055	c 24	N93-26100 *	US-PATENT-APPL-SN-917554	c 37	N92-34205 *	US-PATENT-APPL-SN-940688	c 24	N79-24062 *	
US-PATENT-APPL-SN-892058	c 27	N94-23079 *	US-PATENT-APPL-SN-918533	c 32	N79-23310 *	US-PATENT-APPL-SN-940689	c 35	N80-28686 *	
US-PATENT-APPL-SN-892072	c 37	N92-30540 *	US-PATENT-APPL-SN-918534	c 33	N80-32650 *	US-PATENT-APPL-SN-940970	c 72	N80-27163 *	
US-PATENT-APPL-SN-892072	c 37	N93-20120 *	US-PATENT-APPL-SN-918535	c 35	N80-18357 *	US-PATENT-APPL-SN-941335	c 63	N92-34240 *	#
US-PATENT-APPL-SN-89209	c 09	N72-25248 *	US-PATENT-APPL-SN-918537	c 26	N80-14229 *	US-PATENT-APPL-SN-941711	c 24	N80-26388 *	
US-PATENT-APPL-SN-89210	c 07	N73-26119 *	US-PATENT-APPL-SN-918705	c 52	N82-33996 *	US-PATENT-APPL-SN-941816	c 27	N94-23305 *	
US-PATENT-APPL-SN-89211	c 14	N73-12446 *	US-PATENT-APPL-SN-918746	c 37	N93-29505 *	US-PATENT-APPL-SN-942158	c 34	N88-29133 *	
US-PATENT-APPL-SN-89212	c 08	N72-25208 *	US-PATENT-APPL-SN-918747	c 37	N94-23082 *	US-PATENT-APPL-SN-942159	c 37	N87-18817 *	#
US-PATENT-APPL-SN-893382	c 34	N79-24285 *	US-PATENT-APPL-SN-920878	c 24	N78-27184 *	US-PATENT-APPL-SN-942491	c 33	N94-23823 *	
US-PATENT-APPL-SN-893383	c 31	N81-27323 *	US-PATENT-APPL-SN-920879	c 44	N79-31752 *	US-PATENT-APPL-SN-942499	c 31	N93-12202 *	#
US-PATENT-APPL-SN-893657	c 51	N80-27067 *	US-PATENT-APPL-SN-921192	c 37	N93-11177 *	US-PATENT-APPL-SN-942500	c 61	N93-11664 *	#
US-PATENT-APPL-SN-893857	c 24	N81-17170 *	US-PATENT-APPL-SN-921572	c 24	N90-25196 *	US-PATENT-APPL-SN-94259	c 27	N70-35534 *	
US-PATENT-APPL-SN-893857	c 24	N81-26179 *	US-PATENT-APPL-SN-921573	c 24	N91-25199 *	US-PATENT-APPL-SN-943086	c 37	N80-32717 *	
US-PATENT-APPL-SN-893865	c 37	N81-24443 *	US-PATENT-APPL-SN-921574	c 31	N87-14704 *	US-PATENT-APPL-SN-943087	c 15	N78-32168 *	
US-PATENT-APPL-SN-893903	c 60	N81-15706 *	US-PATENT-APPL-SN-921576	c 33	N90-19425 *	US-PATENT-APPL-SN-943088	c 18	N80-21140 *	
US-PATENT-APPL-SN-894213	c 37	N80-23655 *	US-PATENT-APPL-SN-921577	c 37	N89-13785 *	US-PATENT-APPL-SN-943168	c 35	N93-17076 *	#
US-PATENT-APPL-SN-894504	c 71	N93-24602 *	US-PATENT-APPL-SN-921626	c 25	N80-23383 *	US-PATENT-APPL-SN-943346	c 34	N88-29132 *	
US-PATENT-APPL-SN-894505	c 24	N93-29023 *	US-PATENT-APPL-SN-921627	c 33	N80-14332 *	US-PATENT-APPL-SN-94347	c 05	N72-25122 *	
US-PATENT-APPL-SN-894505	c 25	N94-35229 *	US-PATENT-APPL-SN-923758	c 20	N78-27176 *	US-PATENT-APPL-SN-943559	c 02	N94-10672 *	#
US-PATENT-APPL-SN-894505	c 31	N94-35445 *	US-PATENT-APPL-SN-923758	c 20	N80-10278 *	US-PATENT-APPL-SN-94369	c 07	N71-28965 *	#
US-PATENT-APPL-SN-894541	c 54	N89-29953 *	US-PATENT-APPL-SN-924213	c 35	N93-14841 *	US-PATENT-APPL-SN-94374	c 14	N72-25411 *	
US-PATENT-APPL-SN-897828	c 52	N81-29763 *	US-PATENT-APPL-SN-924297	c 71	N90-12289 *	US-PATENT-APPL-SN-945040	c 37	N82-24492 *	
US-PATENT-APPL-SN-897829	c 44	N79-25481 *	US-PATENT-APPL-SN-924398	c 14	N87-253				

S-PATENT-APPL-SN-946111	c 37	N94-23078 *	US-PATENT-APPL-SN-986399	c 24	N93-20040 *	US-PATENT-CLASS-102-49.8	c 28	N73-24784 *
S-PATENT-APPL-SN-946990	c 28	N80-23471 *	US-PATENT-APPL-SN-98640	c 09	N72-25253 *	US-PATENT-CLASS-102-49	c 33	N70-36846 *
S-PATENT-APPL-SN-946991	c 31	N81-27324 *	US-PATENT-APPL-SN-986632	c 37	N94-23969 *	US-PATENT-CLASS-102-49	c 28	N70-38181 *
S-PATENT-APPL-SN-946992	c 45	N80-14579 *	US-PATENT-APPL-SN-98772	c 08	N73-12176 *	US-PATENT-CLASS-102-49	c 03	N70-39930 *
S-PATENT-APPL-SN-946994	c 44	N79-31753 *	US-PATENT-APPL-SN-98773	c 15	N72-22486 *	US-PATENT-CLASS-102-49	c 15	N70-41679 *
S-PATENT-APPL-SN-947000	c 28	N81-15119 *	US-PATENT-APPL-SN-98774	c 14	N73-19419 *	US-PATENT-CLASS-102-49	c 28	N70-41967 *
S-PATENT-APPL-SN-947612	c 37	N94-20126 *	US-PATENT-APPL-SN-98798	c 09	N73-13209 *	US-PATENT-CLASS-102-49	c 31	N71-10582 *
S-PATENT-APPL-SN-948057	c 08	N94-20556 *	US-PATENT-APPL-SN-988077	c 35	N93-19328 *	US-PATENT-CLASS-102-49	c 15	N71-13789 *
S-PATENT-APPL-SN-94952	c 14	N70-34158 *	US-PATENT-APPL-SN-988082	c 36	N93-19373 *	US-PATENT-CLASS-102-49	c 31	N71-15692 *
S-PATENT-APPL-SN-949886	c 33	N80-18285 *	US-PATENT-APPL-SN-988084	c 39	N93-19329 *	US-PATENT-CLASS-102-49	c 31	N71-17730 *
S-PATENT-APPL-SN-950580	c 27	N94-20377 *	US-PATENT-APPL-SN-991003	c 25	N94-35255 *	US-PATENT-CLASS-102-504	c 15	N82-24272 *
S-PATENT-APPL-SN-950876	c 37	N80-31790 *	US-PATENT-APPL-SN-991403	c 35	N94-35383 *	US-PATENT-CLASS-102-504	c 37	N94-23822 *
S-PATENT-APPL-SN-950877	c 52	N81-25660 *	US-PATENT-APPL-SN-99174	c 14	N72-33377 *	US-PATENT-CLASS-102-50	c 31	N71-24750 *
S-PATENT-APPL-SN-951422	c 51	N81-14605 *	US-PATENT-APPL-SN-99175	c 09	N72-25258 *	US-PATENT-CLASS-102-56R	c 02	N81-14968 *
S-PATENT-APPL-SN-951423	c 48	N80-18667 *	US-PATENT-APPL-SN-99198	c 31	N73-32749 *	US-PATENT-CLASS-102-70.2A	c 28	N74-27425 *
S-PATENT-APPL-SN-951828	c 37	N80-29703 *	US-PATENT-APPL-SN-99201	c 15	N73-25512 *	US-PATENT-CLASS-102-70.2R	c 19	N74-15089 *
S-PATENT-APPL-SN-951829	c 33	N80-18287 *	US-PATENT-APPL-SN-99201	c 37	N74-20063 *	US-PATENT-CLASS-102-70.2	c 09	N71-18599 *
S-PATENT-APPL-SN-951830	c 28	N80-28536 *	US-PATENT-APPL-SN-993477	c 37	N94-35374 *	US-PATENT-CLASS-102-70.2R	c 28	N74-27425 *
S-PATENT-APPL-SN-95183	c 08	N73-12175 *	US-PATENT-APPL-SN-993743	c 27	N93-19332 *	US-PATENT-CLASS-102-70R	c 20	N78-24275 *
S-PATENT-APPL-SN-95189	c 04	N77-21941 *	US-PATENT-APPL-SN-994593	c 74	N93-19374 *	US-PATENT-CLASS-102-90	c 15	N74-27360 *
S-PATENT-APPL-SN-953313	c 32	N81-14187 *	US-PATENT-APPL-SN-99524	c 06	N72-27144 *	US-PATENT-CLASS-102-92.1	c 02	N81-14968 *
S-PATENT-APPL-SN-953314	c 37	N81-14319 *	US-PATENT-APPL-SN-995612	c 25	N94-35229 *	US-PATENT-CLASS-102-95	c 11	N73-32152 *
S-PATENT-APPL-SN-953389	c 74	N80-27185 *	US-PATENT-APPL-SN-996263	c 51	N94-35366 *	US-PATENT-CLASS-102-99	c 28	N77-10213 *
S-PATENT-APPL-SN-953390	c 74	N80-21138 *	US-PATENT-APPL-SN-996763	c 18	N93-20042 *	US-PATENT-CLASS-103.5R	c 04	N73-27052 *
S-PATENT-APPL-SN-953391	c 72	N80-33186 *	US-PATENT-APPL-SN-997265	c 31	N94-35445 *	US-PATENT-CLASS-103-1	c 26	N71-21824 *
S-PATENT-APPL-SN-953562	c 31	N93-19038 *	US-PATENT-APPL-SN-998062	c 37	N94-10674 *	US-PATENT-CLASS-103-37	c 28	N71-14058 *
S-PATENT-APPL-SN-954109	c 74	N94-35384 *	US-PATENT-APPL-SN-99901	c 37	N74-10474 *	US-PATENT-CLASS-103-48	c 15	N71-24042 *
S-PATENT-APPL-SN-955512	c 44	N94-35230 *	US-PATENT-APPL-SN-99903	c 11	N73-12265 *	US-PATENT-CLASS-104-DIG.4	c 44	N84-23019 *
S-PATENT-APPL-SN-955801	c 63	N94-29466 *	US-PATENT-APPL-SN-999794	c 32	N93-28955 *	US-PATENT-CLASS-104-138R	c 85	N74-34672 *
S-PATENT-APPL-SN-956160	c 32	N80-18253 *				US-PATENT-CLASS-104-139	c 05	N71-28619 *
S-PATENT-APPL-SN-956161	c 27	N79-11215 *	US-PATENT-APPL-156-241	c 31	N92-33020 *	US-PATENT-CLASS-104-172.1	c 18	N88-26398 *
S-PATENT-APPL-SN-956166	c 33	N81-19393 *	US-PATENT-APPL-156-285	c 31	N92-33020 *	US-PATENT-CLASS-104-1	c 05	N71-28619 *
S-PATENT-APPL-SN-956168	c 27	N81-25209 *	US-PATENT-APPL-156-293	c 31	N92-33020 *	US-PATENT-CLASS-104-23FS	c 85	N74-34672 *
S-PATENT-APPL-SN-956529	c 35	N80-26635 *	US-PATENT-APPL-264-272.15	c 31	N92-33020 *	US-PATENT-CLASS-104-281	c 37	N85-20337 *
S-PATENT-APPL-SN-956684	c 37	N93-17272 *	US-PATENT-APPL-29-856	c 31	N92-33020 *	US-PATENT-CLASS-104-282	c 37	N83-32067 *
S-PATENT-APPL-SN-956685	c 74	N93-17052 *				US-PATENT-CLASS-104-284	c 37	N85-20337 *
S-PATENT-APPL-SN-957014	c 35	N93-19493 *	US-PATENT-CASE-165-104.25	c 34	N87-28867 *	US-PATENT-CLASS-104-290	c 37	N83-32067 *
S-PATENT-APPL-SN-957127	c 35	N93-29503 *	US-PATENT-CASE-165-104.26	c 34	N87-28867 *	US-PATENT-CLASS-104-35	c 18	N88-26398 *
S-PATENT-APPL-SN-957128	c 37	N93-26001 *	US-PATENT-CASE-165-13	c 34	N87-28867 *	US-PATENT-CLASS-104-49	c 18	N88-26398 *
S-PATENT-APPL-SN-957452	c 32	N80-24510 *	US-PATENT-CASE-165-1	c 34	N87-28867 *	US-PATENT-CLASS-104-83	c 37	N82-21587 *
S-PATENT-APPL-SN-958573	c 25	N80-20334 *	US-PATENT-CASE-165-32	c 34	N87-28867 *	US-PATENT-CLASS-105-1A	c 37	N82-21587 *
S-PATENT-APPL-SN-958575	c 27	N80-24437 *	US-PATENT-CASE-165-41	c 34	N87-28867 *	US-PATENT-CLASS-105-124	c 37	N91-32514 *
S-PATENT-APPL-SN-958843	c 34	N94-20361 *	US-PATENT-CASE-179-146-R	c 05	N83-27975 *	US-PATENT-CLASS-105-141	c 37	N91-32514 *
S-PATENT-APPL-SN-959858	c 33	N94-29505 *	US-PATENT-CASE-179-179	c 05	N83-27975 *	US-PATENT-CLASS-105-142	c 37	N91-32514 *
S-PATENT-APPL-SN-961293	c 18	N94-23824 *	US-PATENT-CASE-244-121	c 05	N83-19737 *	US-PATENT-CLASS-105-161	c 43	N79-26439 *
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S-PATENT-APPL-SN-961832	c 37	N81-24442 *	US-PATENT-CASE-292-254	c 05	N83-19737 *	US-PATENT-CLASS-105-180	c 37	N82-21587 *
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US-PATENT-CLASS-156-303	c 44	N80-18550 *	US-PATENT-CLASS-156-614	c 44	N76-28635 *	US-PATENT-CLASS-16-294	c 37	N86-19605 *
US-PATENT-CLASS-156-304.3	c 27	N84-22748 *	US-PATENT-CLASS-156-616.41	c 76	N90-20896 *	US-PATENT-CLASS-16-294	c 18	N87-14373 *
US-PATENT-CLASS-156-304.6	c 27	N84-22748 *	US-PATENT-CLASS-156-616.4	c 76	N90-20896 *	US-PATENT-CLASS-16-297	c 18	N88-23827 *
US-PATENT-CLASS-156-306	c 24	N78-17150 *	US-PATENT-CLASS-156-617.1	c 76	N91-15898 *	US-PATENT-CLASS-16-326	c 18	N88-23827 *
US-PATENT-CLASS-156-307.1	c 37	N87-23981 *	US-PATENT-CLASS-156-617.1	c 76	N92-21499 *	US-PATENT-CLASS-16-332	c 18	N88-23827 *
US-PATENT-CLASS-156-307.1	c 24	N94-35075 *	US-PATENT-CLASS-156-617-H	c 76	N87-23286 *	US-PATENT-CLASS-16-345	c 18	N88-23827 *
US-PATENT-CLASS-156-307.3	c 27	N82-11206 *	US-PATENT-CLASS-156-617-SP	c 76	N84-35113 *	US-PATENT-CLASS-16-347	c 18	N88-23827 *
US-PATENT-CLASS-156-307.3	c 37	N87-23981 *	US-PATENT-CLASS-156-617-SP	c 76	N87-23286 *	US-PATENT-CLASS-16-349	c 18	N88-23827 *
US-PATENT-CLASS-156-307.4	c 27	N84-23076 *	US-PATENT-CLASS-156-617-V	c 76	N84-35113 *	US-PATENT-CLASS-16-370	c 18	N87-14373 *
US-PATENT-CLASS-156-307.5	c 27	N82-11206 *	US-PATENT-CLASS-156-617SP	c 76	N79-11920 *	US-PATENT-CLASS-16-390	c 31	N86-19479 *
US-PATENT-CLASS-156-307.7	c 37	N87-23981 *	US-PATENT-CLASS-156-617SP	c 76	N79-23798 *	US-PATENT-CLASS-160-23R	c 37	N87-17036 *
US-PATENT-CLASS-156-307.7	c 35	N88-30108 *	US-PATENT-CLASS-156-617SP	c 44	N80-24741 *	US-PATENT-CLASS-160-265	c 37	N87-17036 *
US-PATENT-CLASS-156-307	c 27	N86-20561 *	US-PATENT-CLASS-156-617SP	c 76	N80-32245 *	US-PATENT-CLASS-161-115	c 18	N70-41583 *
US-PATENT-CLASS-156-308	c 05	N72-25121 *	US-PATENT-CLASS-156-619	c 76	N77-32919 *	US-PATENT-CLASS-161-116	c 37	N74-23064 *
US-PATENT-CLASS-156-309.9	c 27	N86-20561 *	US-PATENT-CLASS-156-620.1	c 76	N91-15898 *	US-PATENT-CLASS-161-127	c 18	N72-25540 *
US-PATENT-CLASS-156-309	c 31	N74-18089 *	US-PATENT-CLASS-156-620.1	c 76	N92-21499 *	US-PATENT-CLASS-161-127	c 18	N72-25541 *
US-PATENT-CLASS-156-309	c 27	N78-17205 *	US-PATENT-CLASS-156-620.3	c 76	N92-21499 *	US-PATENT-CLASS-161-161	c 33	N71-25531 *
US-PATENT-CLASS-156-311	c 24	N78-17150 *	US-PATENT-CLASS-156-620.4	c 76	N92-21499 *	US-PATENT-CLASS-161-182	c 15	N69-39735 *
US-PATENT-CLASS-156-312	c 44	N80-18550 *	US-PATENT-CLASS-156-620.76	c 76	N88-24545 *	US-PATENT-CLASS-161-182	c 37	N74-18126 *
US-PATENT-CLASS-156-312	c 24	N94-35075 *	US-PATENT-CLASS-156-620	c 76	N77-32919 *	US-PATENT-CLASS-161-189	c 23	N71-15978 *
US-PATENT-CLASS-156-315	c 27	N82-24340 *	US-PATENT-CLASS-156-621	c 76	N88-14835 *	US-PATENT-CLASS-161-192	c 37	N74-18126 *
US-PATENT-CLASS-156-320	c 15	N72-11392 *	US-PATENT-CLASS-156-621	c 76	N88-24544 *	US-PATENT-CLASS-161-196	c 37	N74-21063 *
US-PATENT-CLASS-156-323	c 27	N81-14077 *	US-PATENT-CLASS-156-621	c 76	N92-34171 *	US-PATENT-CLASS-161-214	c 06	N73-27980 *
US-PATENT-CLASS-156-329	c 27	N82-29456 *	US-PATENT-CLASS-156-621	c 76	N94-20528 *	US-PATENT-CLASS-161-227	c 06	N73-27980 *
US-PATENT-CLASS-156-330.9	c 27	N94-23076 *	US-PATENT-CLASS-156-622	c 76	N88-14835 *	US-PATENT-CLASS-161-42	c 37	N74-18126 *
US-PATENT-CLASS-156-330	c 24	N81-14000 *	US-PATENT-CLASS-156-622	c 76	N94-20528 *	US-PATENT-CLASS-161-43	c 37	N74-18126 *
US-PATENT-CLASS-156-331.5	c 27	N82-11206 *	US-PATENT-CLASS-156-623Q	c 76	N85-29800 *	US-PATENT-CLASS-161-67	c 33	N72-17947 *
US-PATENT-CLASS-156-331.5	c 27	N86-20561 *	US-PATENT-CLASS-156-624	c 76	N83-20789 *	US-PATENT-CLASS-161-68	c 18	N71-21651 *
US-PATENT-CLASS-156-331.5	c 24	N94-35075 *	US-PATENT-CLASS-156-624	c 76	N86-28760 *	US-PATENT-CLASS-161-68	c 18	N72-25540 *
US-PATENT-CLASS-156-331	c 37	N74-18126 *	US-PATENT-CLASS-156-624	c 76	N88-14835 *	US-PATENT-CLASS-161-68	c 18	N72-25541 *
US-PATENT-CLASS-156-331	c 27	N78-17205 *	US-PATENT-CLASS-156-624	c 76	N88-24544 *	US-PATENT-CLASS-161-69	c 33	N71-24858 *
US-PATENT-CLASS-156-331	c 24	N79-16915 *	US-PATENT-CLASS-156-625	c 24	N91-25199 *	US-PATENT-CLASS-161-7	c 18	N72-25540 *
US-PATENT-CLASS-156-331	c 27	N81-14077 *	US-PATENT-CLASS-156-630	c 35	N84-22930 *	US-PATENT-CLASS-161-7	c 18	N72-25541 *
US-PATENT-CLASS-156-338	c 27	N82-24340 *	US-PATENT-CLASS-156-633	c 44	N78-25529 *	US-PATENT-CLASS-161-89	c 17	N71-28747 *
US-PATENT-CLASS-156-344	c 28	N81-14103 *	US-PATENT-CLASS-156-634	c 24	N91-25199 *	US-PATENT-CLASS-161-93	c 37	N75-26371 *
US-PATENT-CLASS-156-344	c 31	N83-34073 *	US-PATENT-CLASS-156-635	c 76	N83-20789 *	US-PATENT-CLASS-161-93	c 18	N73-12604 *
US-PATENT-CLASS-156-344	c 31	N90-19427 *	US-PATENT-CLASS-156-637	c 76	N92-10681 *	US-PATENT-CLASS-161-93	c 37	N74-18126 *
US-PATENT-CLASS-156-344	c 24	N90-25197 *	US-PATENT-CLASS-156-643	c 52	N84-23095 *	US-PATENT-CLASS-161-93	c 37	N75-26371 *
US-PATENT-CLASS-156-345	c 15	N70-42033 *	US-PATENT-CLASS-156-643	c 31	N87-21160 *	US-PATENT-CLASS-162-102	c 24	N76-14204 *
US-PATENT-CLASS-156-345	c 31	N87-21160 *	US-PATENT-CLASS-156-643	c 25	N91-31258 *	US-PATENT-CLASS-162-14	c 85	N79-17747 *
US-PATENT-CLASS-156-345	c 25	N91-31258 *	US-PATENT-CLASS-156-643	c 76	N92-22040 *	US-PATENT-CLASS-162-153	c 24	N76-14204 *
US-PATENT-CLASS-156-345	c 31	N94-35445 *	US-PATENT-CLASS-156-643	c 75	N94-20491 *	US-PATENT-CLASS-162-222	c 24	N76-14204 *
US-PATENT-CLASS-156-379.7	c 33	N82-26571 *	US-PATENT-CLASS-156-643	c 31	N94-35445 *	US-PATENT-CLASS-162-228	c 24	N76-14204 *
US-PATENT-CLASS-156-380.2	c 31	N85-29083 *	US-PATENT-CLASS-156-644	c 52	N84-23095 *	US-PATENT-CLASS-162-29	c 85	N79-17747 *

US-PATENT-CLASS-162-50	c 25	N93-22036 *	US-PATENT-CLASS-165-170	c 34	N88-29132 *	US-PATENT-CLASS-165-96	c 34	N78-17337 *
US-PATENT-CLASS-162-72	c 25	N93-22036 *	US-PATENT-CLASS-165-174	c 33	N72-20915 *	US-PATENT-CLASS-165-96	c 34	N84-14461 *
US-PATENT-CLASS-162-76	c 25	N93-22036 *	US-PATENT-CLASS-165-180	c 34	N90-20323 *	US-PATENT-CLASS-165-96	c 31	N89-12785 *
US-PATENT-CLASS-164-105	c 20	N79-21123 *	US-PATENT-CLASS-165-185	c 28	N73-32606 *	US-PATENT-CLASS-165-96	c 34	N90-21999 *
US-PATENT-CLASS-164-113	c 31	N90-21216 *	US-PATENT-CLASS-165-185	c 34	N83-28356 *	US-PATENT-CLASS-165-96	c 34	N91-21473 *
US-PATENT-CLASS-164-119	c 24	N84-16262 *	US-PATENT-CLASS-165-185	c 31	N91-27385 *	US-PATENT-CLASS-165-97	c 34	N94-20495 *
US-PATENT-CLASS-164-122.1	c 26	N91-14462 *	US-PATENT-CLASS-165-185	c 24	N93-29614 *	US-PATENT-CLASS-166-222	c 43	N81-26509 *
US-PATENT-CLASS-164-132	c 37	N76-23570 *	US-PATENT-CLASS-165-185	c 24	N94-35076 *	US-PATENT-CLASS-166-248	c 43	N78-14452 *
US-PATENT-CLASS-164-284	c 31	N90-21216 *	US-PATENT-CLASS-165-1	c 09	N70-41717 *	US-PATENT-CLASS-166-259	c 43	N78-14452 *
US-PATENT-CLASS-164-331.12	c 27	N83-34041 *	US-PATENT-CLASS-165-1	c 34	N75-12222 *	US-PATENT-CLASS-166-267	c 25	N82-23282 *
US-PATENT-CLASS-164-338.1	c 26	N91-14462 *	US-PATENT-CLASS-165-1	c 34	N85-29180 *	US-PATENT-CLASS-166-303	c 25	N82-23282 *
US-PATENT-CLASS-164-60	c 24	N77-27187 *	US-PATENT-CLASS-165-1	c 34	N87-22950 *	US-PATENT-CLASS-166-343	c 18	N90-20126 *
US-PATENT-CLASS-165-DIG.6	c 34	N84-22903 *	US-PATENT-CLASS-165-1	c 34	N88-23958 *	US-PATENT-CLASS-166-63	c 46	N79-22679 *
US-PATENT-CLASS-165-104.14	c 05	N81-26114 *	US-PATENT-CLASS-165-1	c 31	N91-27385 *	US-PATENT-CLASS-166-77	c 43	N81-26509 *
US-PATENT-CLASS-165-104.14	c 34	N85-29179 *	US-PATENT-CLASS-165-1	c 54	N92-21589 *	US-PATENT-CLASS-169-28	c 12	N72-21310 *
US-PATENT-CLASS-165-104.14	c 34	N86-27593 *	US-PATENT-CLASS-165-20	c 03	N72-28025 *	US-PATENT-CLASS-169-36	c 12	N72-21310 *
US-PATENT-CLASS-165-104.14	c 34	N87-22950 *	US-PATENT-CLASS-165-20	c 35	N91-21496 *	US-PATENT-CLASS-169-47	c 25	N83-36118 *
US-PATENT-CLASS-165-104.14	c 34	N88-23958 *	US-PATENT-CLASS-165-2	c 33	N71-24876 *	US-PATENT-CLASS-169-62	c 31	N81-14137 *
US-PATENT-CLASS-165-104.14	c 34	N89-14392 *	US-PATENT-CLASS-165-2	c 35	N74-15093 *	US-PATENT-CLASS-169-70	c 31	N81-14137 *
US-PATENT-CLASS-165-104.14	c 34	N91-21473 *	US-PATENT-CLASS-165-2	c 44	N77-32581 *	US-PATENT-CLASS-173-131	c 15	N73-13463 *
US-PATENT-CLASS-165-104.14	c 34	N92-29125 *	US-PATENT-CLASS-165-2	c 44	N78-17469 *	US-PATENT-CLASS-173-132	c 37	N76-18454 *
US-PATENT-CLASS-165-104.17	c 34	N94-20371 *	US-PATENT-CLASS-165-2	c 51	N79-10694 *	US-PATENT-CLASS-174-DIG.6	c 26	N73-26752 *
US-PATENT-CLASS-165-104.22	c 34	N92-29125 *	US-PATENT-CLASS-165-2	c 27	N83-36220 *	US-PATENT-CLASS-174-DIG.6	c 26	N73-32571 *
US-PATENT-CLASS-165-104.25	c 34	N87-22950 *	US-PATENT-CLASS-165-30	c 51	N79-10694 *	US-PATENT-CLASS-174-DIG.8	c 33	N74-22865 *
US-PATENT-CLASS-165-104.26	c 74	N83-19596 *	US-PATENT-CLASS-165-30	c 31	N79-17029 *	US-PATENT-CLASS-174-106R	c 09	N72-22198 *
US-PATENT-CLASS-165-104.26	c 34	N83-35307 *	US-PATENT-CLASS-165-30	c 35	N86-20750 *	US-PATENT-CLASS-174-110.3	c 14	N71-27186 *
US-PATENT-CLASS-165-104.26	c 34	N85-21568 *	US-PATENT-CLASS-165-32	c 31	N73-30829 *	US-PATENT-CLASS-174-111	c 33	N74-27683 *
US-PATENT-CLASS-165-104.26	c 34	N85-29180 *	US-PATENT-CLASS-165-32	c 33	N73-32818 *	US-PATENT-CLASS-174-115	c 09	N70-38201 *
US-PATENT-CLASS-165-104.26	c 34	N86-27593 *	US-PATENT-CLASS-165-32	c 34	N78-17337 *	US-PATENT-CLASS-174-117FF	c 09	N72-22198 *
US-PATENT-CLASS-165-104.26	c 34	N87-22950 *	US-PATENT-CLASS-165-32	c 34	N79-31523 *	US-PATENT-CLASS-174-126CP	c 26	N73-32571 *
US-PATENT-CLASS-165-104.26	c 34	N88-29133 *	US-PATENT-CLASS-165-32	c 44	N80-20810 *	US-PATENT-CLASS-174-142	c 33	N80-18286 *
US-PATENT-CLASS-165-104.26	c 34	N89-14392 *	US-PATENT-CLASS-165-32	c 33	N82-24419 *	US-PATENT-CLASS-174-145	c 33	N76-16332 *
US-PATENT-CLASS-165-104.26	c 27	N90-23541 *	US-PATENT-CLASS-165-32	c 34	N83-28356 *	US-PATENT-CLASS-174-148	c 33	N76-16332 *
US-PATENT-CLASS-165-104.26	c 31	N90-23587 *	US-PATENT-CLASS-165-32	c 34	N83-35307 *	US-PATENT-CLASS-174-15CA	c 31	N79-17029 *
US-PATENT-CLASS-165-104.31	c 31	N91-15424 *	US-PATENT-CLASS-165-32	c 34	N84-14461 *	US-PATENT-CLASS-174-15C	c 33	N74-27683 *
US-PATENT-CLASS-165-104.31	c 34	N92-28752 *	US-PATENT-CLASS-165-32	c 34	N85-29179 *	US-PATENT-CLASS-174-16.3	c 24	N93-29614 *
US-PATENT-CLASS-165-104.31	c 34	N94-20495 *	US-PATENT-CLASS-165-32	c 34	N90-21999 *	US-PATENT-CLASS-174-18	c 09	N69-21542 *
US-PATENT-CLASS-165-104.34	c 34	N92-28752 *	US-PATENT-CLASS-165-34	c 34	N87-22950 *	US-PATENT-CLASS-174-28	c 07	N71-27191 *
US-PATENT-CLASS-165-104	c 33	N71-25353 *	US-PATENT-CLASS-165-3	c 03	N72-28025 *	US-PATENT-CLASS-174-28	c 33	N74-27683 *
US-PATENT-CLASS-165-104	c 34	N90-20323 *	US-PATENT-CLASS-165-41	c 34	N84-14461 *	US-PATENT-CLASS-174-35	c 07	N71-19436 *
US-PATENT-CLASS-165-105	c 09	N71-24807 *	US-PATENT-CLASS-165-41	c 34	N86-27593 *	US-PATENT-CLASS-174-36	c 09	N72-22198 *
US-PATENT-CLASS-165-105	c 33	N71-25353 *	US-PATENT-CLASS-165-41	c 34	N88-23958 *	US-PATENT-CLASS-174-52-PE	c 33	N88-23941 *
US-PATENT-CLASS-165-105	c 33	N72-17948 *	US-PATENT-CLASS-165-41	c 35	N89-12048 *	US-PATENT-CLASS-174-52-F	c 33	N88-23941 *
US-PATENT-CLASS-165-105	c 31	N73-30829 *	US-PATENT-CLASS-165-41	c 34	N90-20323 *	US-PATENT-CLASS-174-52-S	c 33	N88-23941 *
US-PATENT-CLASS-165-105	c 28	N73-32606 *	US-PATENT-CLASS-165-41	c 27	N90-23541 *	US-PATENT-CLASS-174-52S	c 15	N73-14469 *
US-PATENT-CLASS-165-105	c 34	N74-18552 *	US-PATENT-CLASS-165-41	c 31	N90-23587 *	US-PATENT-CLASS-174-68.5	c 15	N70-41960 *
US-PATENT-CLASS-165-105	c 34	N75-12222 *	US-PATENT-CLASS-165-41	c 31	N91-15424 *	US-PATENT-CLASS-174-69	c 33	N74-22865 *
US-PATENT-CLASS-165-105	c 44	N75-32581 *	US-PATENT-CLASS-165-41	c 54	N92-21589 *	US-PATENT-CLASS-174-70R	c 33	N74-22865 *
US-PATENT-CLASS-165-105	c 44	N76-16612 *	US-PATENT-CLASS-165-41	c 34	N92-28752 *	US-PATENT-CLASS-174-72	c 03	N69-21539 *
US-PATENT-CLASS-165-105	c 34	N76-17317 *	US-PATENT-CLASS-165-41	c 34	N92-29125 *	US-PATENT-CLASS-174-73R	c 33	N80-18286 *
US-PATENT-CLASS-165-105	c 34	N76-27515 *	US-PATENT-CLASS-165-41	c 37	N94-20127 *	US-PATENT-CLASS-174-84	c 15	N72-17455 *
US-PATENT-CLASS-165-105	c 34	N77-32413 *	US-PATENT-CLASS-165-44	c 15	N71-26611 *	US-PATENT-CLASS-175-1	c 46	N79-22679 *
US-PATENT-CLASS-165-105	c 25	N78-10224 *	US-PATENT-CLASS-165-46	c 05	N71-19439 *	US-PATENT-CLASS-175-26	c 15	N73-32362 *
US-PATENT-CLASS-165-105	c 34	N78-17336 *	US-PATENT-CLASS-165-46	c 05	N71-24147 *	US-PATENT-CLASS-175-310	c 15	N70-42034 *
US-PATENT-CLASS-165-105	c 34	N78-17337 *	US-PATENT-CLASS-165-46	c 05	N73-20137 *	US-PATENT-CLASS-175-323	c 14	N69-21923 *
US-PATENT-CLASS-165-105	c 44	N79-18443 *	US-PATENT-CLASS-165-46	c 05	N73-26071 *	US-PATENT-CLASS-175-45	c 35	N84-33768 *
US-PATENT-CLASS-165-105	c 37	N79-28549 *	US-PATENT-CLASS-165-46	c 54	N82-29002 *	US-PATENT-CLASS-175-78	c 46	N80-10709 *
US-PATENT-CLASS-165-105	c 34	N79-31523 *	US-PATENT-CLASS-165-46	c 34	N90-21999 *	US-PATENT-CLASS-176-11	c 24	N72-33681 *
US-PATENT-CLASS-165-105	c 35	N81-14287 *	US-PATENT-CLASS-165-47	c 33	N71-29052 *	US-PATENT-CLASS-176-11	c 25	N76-27383 *
US-PATENT-CLASS-165-106	c 33	N73-32818 *	US-PATENT-CLASS-165-47	c 31	N73-30829 *	US-PATENT-CLASS-176-11	c 25	N76-29379 *
US-PATENT-CLASS-165-106	c 34	N76-17317 *	US-PATENT-CLASS-165-47	c 34	N75-12222 *	US-PATENT-CLASS-176-11	c 25	N78-27226 *
US-PATENT-CLASS-165-107	c 09	N71-24807 *	US-PATENT-CLASS-165-48.2	c 54	N92-21589 *	US-PATENT-CLASS-176-14	c 25	N76-29379 *
US-PATENT-CLASS-165-107	c 44	N77-32581 *	US-PATENT-CLASS-165-48R	c 35	N85-29214 *	US-PATENT-CLASS-176-169	c 22	N73-32528 *
US-PATENT-CLASS-165-109.1	c 34	N92-28752 *	US-PATENT-CLASS-165-4	c 34	N92-28752 *	US-PATENT-CLASS-176-16	c 25	N76-27383 *
US-PATENT-CLASS-165-109.1	c 34	N94-20495 *	US-PATENT-CLASS-165-58	c 27	N83-36220 *	US-PATENT-CLASS-176-16	c 25	N76-29379 *
US-PATENT-CLASS-165-109	c 35	N74-15093 *	US-PATENT-CLASS-165-61	c 34	N83-34221 *	US-PATENT-CLASS-176-16	c 25	N78-27226 *
US-PATENT-CLASS-165-110	c 44	N76-31667 *	US-PATENT-CLASS-165-61	c 35	N85-29214 *	US-PATENT-CLASS-176-22	c 73	N78-28913 *
US-PATENT-CLASS-165-110	c 34	N94-20371 *	US-PATENT-CLASS-165-61	c 35	N86-20750 *	US-PATENT-CLASS-176-33	c 73	N78-28913 *
US-PATENT-CLASS-165-110	c 77	N75-20139 *	US-PATENT-CLASS-165-61	c 31	N89-12785 *	US-PATENT-CLASS-176-39	c 73	N78-19920 *
US-PATENT-CLASS-165-110	c 34	N92-28752 *	US-PATENT-CLASS-165-64	c 35	N85-29214 *	US-PATENT-CLASS-176-39	c 73	N78-28913 *
US-PATENT-CLASS-165-110	c 34	N94-20495 *	US-PATENT-CLASS-165-65	c 35	N86-20750 *	US-PATENT-CLASS-176-3	c 75	N75-13625 *
US-PATENT-CLASS-165-111	c 77	N75-20139 *	US-PATENT-CLASS-165-76	c 34	N83-28356 *	US-PATENT-CLASS-176-45	c 22	N71-28759 *
US-PATENT-CLASS-165-12	c 33	N71-24276 *	US-PATENT-CLASS-165-76	c 37	N86-32736 *	US-PATENT-CLASS-176-86G	c 22	N72-20597 *
US-PATENT-CLASS-165-12	c 34	N83-34221 *	US-PATENT-CLASS-165-78	c 34	N90-21999 *	US-PATENT-CLASS-177-147	c 35	N85-20294 *
US-PATENT-CLASS-165-133	c 33	N71-16277 *	US-PATENT-CLASS-165-78	c 34	N94-20371 *	US-PATENT-CLASS-177-1	c 35	N77-19385 *
US-PATENT-CLASS-165-133	c 33	N71-25353 *	US-PATENT-CLASS-165-80E	c 34	N83-34221 *	US-PATENT-CLASS-177-200	c 35	N74-26945 *
US-PATENT-CLASS-165-133	c 33	N72-20915 *	US-PATENT-CLASS-165-81	c 34	N88-29132 *	US-PATENT-CLASS-177-208	c 35	N77-19385 *
US-PATENT-CLASS-165-133	c 44	N76-23675 *	US-PATENT-CLASS-165-81	c 25	N90-11824 *	US-PATENT-CLASS-177-210	c 14	N71-10773 *
US-PATENT-CLASS-165-133	c 34	N90-20323 *	US-PATENT-CLASS-165-83	c 25	N90-11824 *	US-PATENT-CLASS-177-211	c 35	N74-26945 *
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US-PATENT-APPL-SN-964009	c 02	N80-20224 *	US-PATENT-CASE-368-6	c 35	N83-29651 *	US-PATENT-CLASS-106-15FP	c 27	N76-24405 *
US-PATENT-APPL-SN-964754	c 33	N80-20487 *				US-PATENT-CLASS-106-15FP	c 24	N78-15180 *
US-PATENT-APPL-SN-964754	c 44	N81-29524 *	US-PATENT-CLAS-165-27	c 34	N83-34221 *	US-PATENT-CLASS-106-15R	c 23	N75-14834 *
US-PATENT-APPL-SN-965367	c 33	N81-14221 *	US-PATENT-CLAS-361-90	c 33	N83-34190 *	US-PATENT-CLASS-106-15	c 18	N71-14014 *
US-PATENT-APPL-SN-965368	c 74	N81-17888 *				US-PATENT-CLASS-106-15	c 18	N71-15469 *
US-PATENT-APPL-SN-967083	c 63	N94-29504 *	US-PATENT-CLASS-DIG.4	c 37	N91-21543 *	US-PATENT-CLASS-106-18.16	c 27	N82-16238 *
US-PATENT-APPL-SN-968082	c 24	N94-35372 *				US-PATENT-CLASS-106-18.24	c 27	N82-16238 *
US-PATENT-APPL-SN-969755	c 05	N81-19087 *	US-PATENT-CLASS-D12-76	c 05	N75-25914 *	US-PATENT-CLASS-106-197	c 25	N82-29370 *
US-PATENT-APPL-SN-969756	c 37	N81-14317 *	US-PATENT-CLASS-D71-1	c 05	N74-10907 *	US-PATENT-CLASS-106-1	c 44	N79-31752 *
US-PATENT-APPL-SN-969757	c 24	N84-16262 *				US-PATENT-CLASS-106-209	c 05	N72-25120 *
US-PATENT-APPL-SN-969759	c 25	N82-11144 *	US-PATENT-CLASS-073-801	c 26	N90-21170 *	US-PATENT-CLASS-106-286	c 18	N72-25566 *
US-PATENT-APPL-SN-969760	c 39	N81-25400 *	US-PATENT-CLASS-100-299	c 15	N72-20446 *	US-PATENT-CLASS-106-287SB	c 23	N75-14834 *
US-PATENT-APPL-SN-969761	c 32	N82-12297 *	US-PATENT-CLASS-100-8	c 33	N74-17928 *	US-PATENT-CLASS-106-288B	c 18	N72-22566 *
US-PATENT-APPL-SN-969762	c 33	N82-29539 *	US-PATENT-CLASS-101-395	c 35	N84-22930 *	US-PATENT-CLASS-106-292	c 18	N72-17532 *
US-PATENT-APPL-SN-969868	c 63	N93-17276 *	US-PATENT-CLASS-101-407BP	c 37	N84-12491 *	US-PATENT-CLASS-106-292	c 27	N77-30237 *
US-PATENT-APPL-SN-969869	c 38	N93-17048 *	US-PATENT-CLASS-102-101	c 28	N71-26779 *	US-PATENT-CLASS-106-296	c 18	N71-26772 *
US-PATENT-APPL-SN-970669	c 26	N94-29507 *	US-PATENT-CLASS-102-103	c 20	N78-32179 *	US-PATENT-CLASS-106-296	c 27	N77-30237 *
US-PATENT-APPL-SN-970755	c 27	N94-29555 *	US-PATENT-CLASS-102-105	c 33	N72-17947 *	US-PATENT-CLASS-106-296	c 24	N79-14156 *
US-PATENT-APPL-SN-971035	c 74	N94-20240 *	US-PATENT-CLASS-102-105	c 33	N72-25911 *	US-PATENT-CLASS-106-299	c 18	N72-17532 *
US-PATENT-APPL-SN-971116	c 54	N93-17088 *	US-PATENT-CLASS-102-105	c 33	N72-25952 *	US-PATENT-CLASS-106-299	c 27	N77-30237 *
US-PATENT-APPL-SN-971112	c 21	N70-34539 *	US-PATENT-CLASS-102-105	c 27	N74-27037 *	US-PATENT-CLASS-106-306	c 24	N76-24363 *
US-PATENT-APPL-SN-971473	c 23	N81-29160 *	US-PATENT-CLASS-102-105	c 24	N79-25142 *	US-PATENT-CLASS-106-39.5	c 27	N78-19302 *
US-PATENT-APPL-SN-971474	c 20	N82-18314 *	US-PATENT-CLASS-102-200	c 25	N91-32196 *	US-PATENT-CLASS-106-39R	c 18	N73-14584 *
US-PATENT-APPL-SN-971475	c 27	N81-24257 *	US-PATENT-CLASS-102-202.14	c 28	N93-18274 *	US-PATENT-CLASS-106-39	c 26	N72-28762 *
US-PATENT-APPL-SN-971596	c 27	N80-32516 *	US-PATENT-CLASS-102-21.6	c 46	N79-22679 *	US-PATENT-CLASS-106-40	c 18	N71-22998 *
US-PATENT-APPL-SN-972252	c 35	N81-33448 *	US-PATENT-CLASS-102-262	c 03	N91-15142 *	US-PATENT-CLASS-106-43	c 27	N78-17206 *
US-PATENT-APPL-SN-97343	c 10	N72-27246 *	US-PATENT-CLASS-102-275.11	c 28	N93-18274 *	US-PATENT-CLASS-106-43	c 37	N81-25371 *
US-PATENT-APPL-SN-973505	c 76	N93-17413 *	US-PATENT-CLASS-102-28EB	c 28	N74-27425 *	US-PATENT-CLASS-106-46	c 26	N72-28762 *
US-PATENT-APPL-SN-974292	c 26	N80-23419 *	US-PATENT-CLASS-102-28R	c 28	N79-11231 *	US-PATENT-CLASS-106-48	c 27	N75-27160 *
US-PATENT-APPL-SN-974471	c 32	N81-14185 *	US-PATENT-CLASS-102-289	c 27	N82-24339 *	US-PATENT-CLASS-106-48	c 27	N78-32260 *
US-PATENT-APPL-SN-974472	c 37	N81-15363 *	US-PATENT-CLASS-102-34.4	c 07	N72-25171 *	US-PATENT-CLASS-106-50	c 27	N82-29452 *
US-PATENT-APPL-SN-974473	c 60	N81-27814 *	US-PATENT-CLASS-102-378	c 01	N83-35992 *	US-PATENT-CLASS-106-50	c 27	N82-29455 *
US-PATENT-APPL-SN-974474	c 25	N81-19242 *	US-PATENT-CLASS-102-378	c 37	N90-21390 *	US-PATENT-CLASS-106-52	c 37	N74-21063 *
US-PATENT-APPL-SN-974475	c 33	N81-17349 *	US-PATENT-CLASS-102-378	c 37	N91-32498 *	US-PATENT-CLASS-106-52	c 27	N82-29451 *
US-PATENT-APPL-SN-974476	c 52	N81-14613 *	US-PATENT-CLASS-102-39	c 20	N78-24275 *	US-PATENT-CLASS-106-52	c 27	N82-29452 *
US-PATENT-APPL-SN-97472	c 14	N73-28487 *	US-PATENT-CLASS-102-49.3	c 20	N77-17143 *	US-PATENT-CLASS-106-52	c 27	N82-29454 *
US-PATENT-APPL-SN-977302	c 74	N93-28135 *	US-PATENT-CLASS-102-49.5	c 31	N71-15687 *	US-PATENT-CLASS-106-52	c 27	N82-29455 *
US-PATENT-APPL-SN-977468	c 37	N93-17057 *	US-PATENT-CLASS-102-49.5	c 15	N71-22874 *	US-PATENT-CLASS-106-54	c 27	N75-27160 *
US-PATENT-APPL-SN-97829	c 06	N74-13129 *	US-PATENT-CLASS-102-49.5	c 31	N71-23008 *	US-PATENT-CLASS-106-54	c 27	N76-23426 *
US-PATENT-APPL-SN-979987	c 63	N94-15704 *	US-PATENT-CLASS-102-49.5	c 31	N73-14853 *	US-PATENT-CLASS-106-54	c 27	N78-32260 *
US-PATENT-APPL-SN-982350	c 23	N93-17412 *	US-PATENT-CLASS-102-49.7	c 28	N73-24784 *	US-PATENT-CLASS-106-54	c 27	N82-29452 *
US-PATENT-APPL-SN-982535	c 27	N94-20529 *						
US-PATENT-APPL-SN-98517	c 09	N72-25250 *						

US-PATENT-CLASS-106-54	c 27	N82-29454 *	US-PATENT-CLASS-117-161UN	c 06	N73-27980 *	US-PATENT-CLASS-118-7	c 51	N77-27677 *
US-PATENT-CLASS-106-55	c 18	N73-14584 *	US-PATENT-CLASS-117-161UN	c 27	N74-23125 *	US-PATENT-CLASS-118-9	c 51	N77-27677 *
US-PATENT-CLASS-106-58	c 18	N73-14584 *	US-PATENT-CLASS-117-161UN	c 25	N75-12087 *	US-PATENT-CLASS-119-15	c 11	N71-22875 *
US-PATENT-CLASS-106-63	c 18	N73-14584 *	US-PATENT-CLASS-117-161UZ	c 25	N75-12087 *	US-PATENT-CLASS-119-17	c 51	N81-32829 *
US-PATENT-CLASS-106-65	c 27	N78-19302 *	US-PATENT-CLASS-117-161	c 06	N72-25150 *	US-PATENT-CLASS-119-18	c 51	N81-32829 *
US-PATENT-CLASS-106-73.5	c 27	N78-19302 *	US-PATENT-CLASS-117-2R	c 32	N74-27612 *	US-PATENT-CLASS-119-29	c 51	N78-27733 *
US-PATENT-CLASS-106-74	c 18	N69-39979 *	US-PATENT-CLASS-117-200	c 09	N72-25259 *	US-PATENT-CLASS-119-51.11	c 35	N78-19466 *
US-PATENT-CLASS-106-74	c 24	N79-31347 *	US-PATENT-CLASS-117-201	c 15	N69-21460 *	US-PATENT-CLASS-119-51.13	c 51	N74-15778 *
US-PATENT-CLASS-106-74	c 18	N71-24183 *	US-PATENT-CLASS-117-201	c 18	N71-16046 *	US-PATENT-CLASS-119-51.5	c 51	N74-15778 *
US-PATENT-CLASS-106-84	c 18	N71-24184 *	US-PATENT-CLASS-117-201	c 03	N72-24037 *	US-PATENT-CLASS-119-51R	c 51	N74-15778 *
US-PATENT-CLASS-106-84	c 18	N72-22566 *	US-PATENT-CLASS-117-201	c 25	N75-26043 *	US-PATENT-CLASS-119-52AF	c 51	N74-15778 *
US-PATENT-CLASS-106-84	c 18	N72-23581 *	US-PATENT-CLASS-117-211	c 15	N72-25447 *	US-PATENT-CLASS-119-54	c 51	N74-15778 *
US-PATENT-CLASS-106-84	c 24	N79-14156 *	US-PATENT-CLASS-117-212	c 09	N71-20705 *	US-PATENT-CLASS-119-72.5	c 35	N78-19466 *
US-PATENT-CLASS-106-84	c 24	N79-31347 *	US-PATENT-CLASS-117-212	c 15	N71-29032 *	US-PATENT-CLASS-119-96	c 05	N71-28619 *
US-PATENT-CLASS-106-88	c 18	N71-16124 *	US-PATENT-CLASS-117-212	c 26	N72-28762 *	US-PATENT-CLASS-121-38	c 15	N70-35409 *
US-PATENT-CLASS-108-136	c 09	N75-12968 *	US-PATENT-CLASS-117-217	c 15	N72-25447 *	US-PATENT-CLASS-121-38	c 02	N71-29128 *
US-PATENT-CLASS-108-3	c 54	N88-24163 *	US-PATENT-CLASS-117-217	c 26	N72-28762 *	US-PATENT-CLASS-122-32	c 33	N72-20915 *
US-PATENT-CLASS-108-3	c 09	N94-23310 *	US-PATENT-CLASS-117-21	c 18	N69-39895 *	US-PATENT-CLASS-122-366	c 34	N85-29180 *
US-PATENT-CLASS-108-59	c 09	N94-23310 *	US-PATENT-CLASS-117-224	c 15	N71-28582 *	US-PATENT-CLASS-122-366	c 34	N86-27593 *
US-PATENT-CLASS-108-7	c 54	N88-24163 *	US-PATENT-CLASS-117-228	c 06	N73-27980 *	US-PATENT-CLASS-122-366	c 34	N88-29133 *
US-PATENT-CLASS-109-49.5	c 31	N81-19343 *	US-PATENT-CLASS-117-234	c 76	N79-16678 *	US-PATENT-CLASS-122-366	c 34	N89-14392 *
US-PATENT-CLASS-109-58.5	c 31	N81-19343 *	US-PATENT-CLASS-117-235	c 76	N79-16678 *	US-PATENT-CLASS-122-366	c 27	N90-23541 *
US-PATENT-CLASS-110-165R	c 31	N91-15423 *	US-PATENT-CLASS-117-237	c 76	N79-16678 *	US-PATENT-CLASS-122-366	c 31	N90-23587 *
US-PATENT-CLASS-110-171	c 31	N91-15423 *	US-PATENT-CLASS-117-239	c 76	N79-16678 *	US-PATENT-CLASS-122-40	c 25	N82-11144 *
US-PATENT-CLASS-110-186	c 25	N84-16276 *	US-PATENT-CLASS-117-240	c 76	N79-16678 *	US-PATENT-CLASS-123-DIG.12	c 37	N76-18457 *
US-PATENT-CLASS-110-218	c 31	N81-15154 *	US-PATENT-CLASS-117-33.3	c 70	N74-13436 *	US-PATENT-CLASS-123-DIG.12	c 44	N78-33526 *
US-PATENT-CLASS-110-229	c 31	N81-15154 *	US-PATENT-CLASS-117-35R	c 06	N73-13128 *	US-PATENT-CLASS-123-DIG.12	c 28	N80-10374 *
US-PATENT-CLASS-110-232	c 31	N81-15154 *	US-PATENT-CLASS-117-35	c 32	N79-19186 *	US-PATENT-CLASS-123-DIG.8	c 37	N77-31497 *
US-PATENT-CLASS-110-234	c 25	N82-11144 *	US-PATENT-CLASS-117-37	c 15	N72-25452 *	US-PATENT-CLASS-123-1A	c 44	N76-29700 *
US-PATENT-CLASS-110-245	c 25	N82-11144 *	US-PATENT-CLASS-117-38	c 24	N75-33181 *	US-PATENT-CLASS-123-1A	c 44	N78-33526 *
US-PATENT-CLASS-110-255	c 25	N82-11144 *	US-PATENT-CLASS-117-43	c 31	N79-21227 *	US-PATENT-CLASS-123-102	c 11	N72-20244 *
US-PATENT-CLASS-110-259	c 31	N91-15423 *	US-PATENT-CLASS-117-45	c 74	N74-20008 *	US-PATENT-CLASS-123-119A	c 37	N77-31497 *
US-PATENT-CLASS-110-262	c 25	N84-16276 *	US-PATENT-CLASS-117-46FS	c 24	N75-33181 *	US-PATENT-CLASS-123-119E	c 37	N76-18457 *
US-PATENT-CLASS-110-263	c 25	N84-16276 *	US-PATENT-CLASS-117-46	c 15	N71-16077 *	US-PATENT-CLASS-123-120	c 37	N76-18457 *
US-PATENT-CLASS-110-265	c 25	N84-16276 *	US-PATENT-CLASS-117-47R	c 15	N72-25452 *	US-PATENT-CLASS-123-121	c 37	N76-18457 *
US-PATENT-CLASS-110-266	c 25	N82-11144 *	US-PATENT-CLASS-117-50	c 15	N71-15610 *	US-PATENT-CLASS-123-122AB	c 28	N72-22772 *
US-PATENT-CLASS-110-343	c 31	N81-15154 *	US-PATENT-CLASS-117-62	c 15	N72-25447 *	US-PATENT-CLASS-123-122AB	c 37	N77-31497 *
US-PATENT-CLASS-110-347	c 31	N81-15154 *	US-PATENT-CLASS-117-62	c 15	N72-25452 *	US-PATENT-CLASS-123-122E	c 07	N77-21067 *
US-PATENT-CLASS-112-402	c 18	N71-26285 *	US-PATENT-CLASS-117-65.2	c 18	N71-10772 *	US-PATENT-CLASS-123-122E	c 37	N78-10467 *
US-PATENT-CLASS-112-415	c 24	N94-29509 *	US-PATENT-CLASS-117-66	c 15	N73-32360 *	US-PATENT-CLASS-123-148CB	c 33	N77-28385 *
US-PATENT-CLASS-112-420	c 24	N94-29509 *	US-PATENT-CLASS-117-69	c 18	N70-36400 *	US-PATENT-CLASS-123-148DC	c 37	N79-11405 *
US-PATENT-CLASS-112-440	c 24	N91-31236 *	US-PATENT-CLASS-117-69	c 15	N71-16075 *	US-PATENT-CLASS-123-148E	c 33	N77-28385 *
US-PATENT-CLASS-112-440	c 24	N94-29509 *	US-PATENT-CLASS-117-6	c 14	N71-20461 *	US-PATENT-CLASS-123-148E	c 37	N79-11405 *
US-PATENT-CLASS-113-116	c 15	N71-15597 *	US-PATENT-CLASS-117-6	c 27	N81-15104 *	US-PATENT-CLASS-123-179R	c 28	N80-10374 *
US-PATENT-CLASS-114-112	c 18	N90-19278 *	US-PATENT-CLASS-117-72	c 35	N75-25122 *	US-PATENT-CLASS-123-193P	c 37	N88-23981 *
US-PATENT-CLASS-114-122	c 02	N73-26006 *	US-PATENT-CLASS-117-8.5	c 24	N75-33181 *	US-PATENT-CLASS-123-193P	c 37	N90-22042 *
US-PATENT-CLASS-114-122	c 34	N91-25380 *	US-PATENT-CLASS-117-93.1GD	c 25	N75-12087 *	US-PATENT-CLASS-123-197R	c 37	N83-36483 *
US-PATENT-CLASS-114-125	c 34	N91-25380 *	US-PATENT-CLASS-117-93.16D	c 15	N72-25447 *	US-PATENT-CLASS-123-37	c 37	N77-31497 *
US-PATENT-CLASS-114-16.6	c 37	N76-22540 *	US-PATENT-CLASS-117-93.3	c 15	N72-25452 *	US-PATENT-CLASS-123-3	c 44	N76-18642 *
US-PATENT-CLASS-114-201R	c 18	N90-19278 *	US-PATENT-CLASS-117-93.3	c 37	N75-15992 *	US-PATENT-CLASS-123-3	c 44	N76-29700 *
US-PATENT-CLASS-114-217	c 18	N94-23824 *	US-PATENT-CLASS-117-95	c 24	N74-19769 *	US-PATENT-CLASS-123-3	c 44	N77-10636 *
US-PATENT-CLASS-114-66.5	c 12	N70-33305 *	US-PATENT-CLASS-117-95	c 36	N75-15029 *	US-PATENT-CLASS-123-3	c 37	N77-31497 *
US-PATENT-CLASS-114-67A	c 34	N91-14562 *	US-PATENT-CLASS-117-97	c 36	N75-15029 *	US-PATENT-CLASS-123-3	c 44	N78-33526 *
US-PATENT-CLASS-114-67R	c 02	N88-14071 *	US-PATENT-CLASS-118-DIG.5	c 24	N92-10070 *	US-PATENT-CLASS-123-3	c 28	N80-10374 *
US-PATENT-CLASS-115-103.5	c 51	N75-13502 *	US-PATENT-CLASS-118-11	c 15	N71-17647 *	US-PATENT-CLASS-123-41.33	c 07	N77-23106 *
US-PATENT-CLASS-116-DIG.43	c 02	N89-12551 *	US-PATENT-CLASS-118-124	c 24	N93-24597 *	US-PATENT-CLASS-123-41.33	c 37	N78-10467 *
US-PATENT-CLASS-116-114.5	c 35	N75-25122 *	US-PATENT-CLASS-118-125	c 24	N93-24597 *	US-PATENT-CLASS-123-59E	c 37	N77-31497 *
US-PATENT-CLASS-116-114AH	c 14	N72-25411 *	US-PATENT-CLASS-118-300	c 71	N84-16940 *	US-PATENT-CLASS-123-78E	c 37	N83-36483 *
US-PATENT-CLASS-116-114AH	c 35	N75-33367 *	US-PATENT-CLASS-118-308	c 17	N71-24911 *	US-PATENT-CLASS-123-89A	c 37	N76-18457 *
US-PATENT-CLASS-116-117	c 14	N70-42074 *	US-PATENT-CLASS-118-308	c 31	N93-26101 *	US-PATENT-CLASS-124-11R	c 75	N76-17951 *
US-PATENT-CLASS-116-117	c 02	N92-21588 *	US-PATENT-CLASS-118-313	c 51	N77-27677 *	US-PATENT-CLASS-124-1	c 75	N76-17951 *
US-PATENT-CLASS-116-201	c 02	N92-21588 *	US-PATENT-CLASS-118-320	c 37	N82-24492 *	US-PATENT-CLASS-124-3	c 14	N92-15081 *
US-PATENT-CLASS-116-205	c 02	N89-12551 *	US-PATENT-CLASS-118-325	c 31	N93-26101 *	US-PATENT-CLASS-124-56	c 18	N86-20469 *
US-PATENT-CLASS-116-267	c 02	N89-12551 *	US-PATENT-CLASS-118-405	c 76	N91-15898 *	US-PATENT-CLASS-124-6	c 09	N77-19076 *
US-PATENT-CLASS-116-70	c 35	N93-29503 *	US-PATENT-CLASS-118-407	c 76	N91-15898 *	US-PATENT-CLASS-125-13R	c 37	N85-21650 *
US-PATENT-CLASS-117-104	c 18	N71-26100 *	US-PATENT-CLASS-118-416	c 24	N92-16025 *	US-PATENT-CLASS-125-15	c 37	N85-21650 *
US-PATENT-CLASS-117-105.2	c 37	N74-11301 *	US-PATENT-CLASS-118-419	c 76	N91-15898 *	US-PATENT-CLASS-125-15	c 46	N74-23069 *
US-PATENT-CLASS-117-105.2	c 24	N75-33181 *	US-PATENT-CLASS-118-423	c 37	N82-12441 *	US-PATENT-CLASS-125-20	c 31	N83-27058 *
US-PATENT-CLASS-117-105.5	c 15	N73-32360 *	US-PATENT-CLASS-118-428	c 76	N91-15898 *	US-PATENT-CLASS-125-21	c 37	N80-29703 *
US-PATENT-CLASS-117-105	c 15	N73-32360 *	US-PATENT-CLASS-118-43	c 25	N75-29192 *	US-PATENT-CLASS-125-23R	c 76	N80-18951 *
US-PATENT-CLASS-117-106A	c 70	N74-13436 *	US-PATENT-CLASS-118-48	c 25	N75-26043 *	US-PATENT-CLASS-125-23R	c 37	N82-32730 *
US-PATENT-CLASS-117-106A	c 37	N75-15992 *	US-PATENT-CLASS-118-49.1	c 15	N72-32487 *	US-PATENT-CLASS-125-3	c 46	N74-23069 *
US-PATENT-CLASS-117-106A	c 25	N75-26043 *	US-PATENT-CLASS-118-49.1	c 31	N75-12161 *	US-PATENT-CLASS-126-DIG.1	c 44	N85-30474 *
US-PATENT-CLASS-117-106	c 33	N71-14032 *	US-PATENT-CLASS-118-49.1	c 25	N75-26043 *	US-PATENT-CLASS-126-263	c 44	N77-32581 *
US-PATENT-CLASS-117-107.2	c 25	N75-26043 *	US-PATENT-CLASS-118-49.5	c 09	N71-26701 *	US-PATENT-CLASS-126-263	c 44	N78-17460 *
US-PATENT-CLASS-117-107	c 15	N72-25447 *	US-PATENT-CLASS-118-49	c 25	N79-28253 *	US-PATENT-CLASS-126-263	c 44	N80-20808 *
US-PATENT-CLASS-117-107	c 76	N79-16678 *	US-PATENT-CLASS-118-50.1	c 71	N84-16940 *	US-PATENT-CLASS-126-263	c 35	N85-29214 *
US-PATENT-CLASS-117-119	c 18	N71-16105 *	US-PATENT-CLASS-118-50.1	c 36	N84-22944 *	US-PATENT-CLASS-126-270	c 09	N70-40234 *
US-PATENT-CLASS-117-119	c 76	N79-16678 *	US-PATENT-CLASS-118-500	c 37	N78-17383 *	US-PATENT-CLASS-126-270	c 03	N70-41580 *
US-PATENT-CLASS-117-124C	c 15	N72-25452 *	US-PATENT-CLASS-118-500	c 37	N82-12441 *	US-PATENT-CLASS-126-270	c 34	N74-23039 *
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US-PATENT-CLASS-219-85CM	c 35	N80-20560 *	US-PATENT-CLASS-228-190	c 24	N75-28135 *	US-PATENT-CLASS-23-255E	c 35	N75-29380 *
US-PATENT-CLASS-219-85R	c 35	N80-20560 *	US-PATENT-CLASS-228-190	c 26	N77-28265 *	US-PATENT-CLASS-23-255R	c 25	N76-18245 *
US-PATENT-CLASS-219-85	c 15	N72-22491 *	US-PATENT-CLASS-228-190	c 24	N81-17170 *	US-PATENT-CLASS-23-259	c 15	N71-27372 *
US-PATENT-CLASS-219-9.5	c 15	N72-23497 *	US-PATENT-CLASS-228-190	c 24	N81-26179 *	US-PATENT-CLASS-23-259	c 15	N72-21465 *
US-PATENT-CLASS-219-91	c 32	N84-20368 *	US-PATENT-CLASS-228-193	c 24	N75-28135 *	US-PATENT-CLASS-23-259	c 37	N74-18123 *
US-PATENT-CLASS-219-91	c 15	N71-18613 *	US-PATENT-CLASS-228-193	c 37	N76-18455 *	US-PATENT-CLASS-23-259	c 51	N77-27677 *
US-PATENT-CLASS-219-91	c 15	N73-32358 *	US-PATENT-CLASS-228-193	c 35	N83-35338 *	US-PATENT-CLASS-23-277C	c 25	N74-33378 *
US-PATENT-CLASS-219-92	c 37	N76-27568 *	US-PATENT-CLASS-228-194	c 26	N77-28265 *	US-PATENT-CLASS-23-277R	c 44	N77-22607 *
US-PATENT-CLASS-219-92	c 37	N77-11397 *	US-PATENT-CLASS-228-1	c 37	N75-25185 *	US-PATENT-CLASS-23-277	c 26	N70-40015 *
US-PATENT-CLASS-22-200	c 15	N71-15966 *	US-PATENT-CLASS-228-2.5	c 37	N79-13364 *	US-PATENT-CLASS-23-281	c 28	N72-18766 *
US-PATENT-CLASS-22-203	c 17	N70-38198 *	US-PATENT-CLASS-228-2.5	c 37	N88-14359 *	US-PATENT-CLASS-23-281	c 25	N74-12813 *
US-PATENT-CLASS-220-14	c 15	N69-39935 *	US-PATENT-CLASS-228-2.5	c 31	N91-31476 *	US-PATENT-CLASS-23-281	c 44	N76-18642 *
US-PATENT-CLASS-220-15	c 31	N71-15664 *	US-PATENT-CLASS-228-2.5	c 31	N92-16162 *	US-PATENT-CLASS-23-281	c 44	N76-29700 *
US-PATENT-CLASS-220-15	c 34	N75-12222 *	US-PATENT-CLASS-228-203	c 37	N94-29557 *	US-PATENT-CLASS-23-281	c 44	N77-10636 *
US-PATENT-CLASS-220-1	c 31	N71-17680 *	US-PATENT-CLASS-228-205	c 37	N81-19455 *	US-PATENT-CLASS-23-281	c 44	N77-22607 *
US-PATENT-CLASS-220-2.2	c 24	N79-25143 *	US-PATENT-CLASS-228-206	c 37	N76-18455 *	US-PATENT-CLASS-23-284	c 35	N74-15127 *
US-PATENT-CLASS-220-266	c 37	N79-22474 *	US-PATENT-CLASS-228-208	c 37	N87-21334 *	US-PATENT-CLASS-23-288F	c 25	N74-12813 *
US-PATENT-CLASS-220-306	c 27	N84-27886 *	US-PATENT-CLASS-228-209	c 37	N87-21334 *	US-PATENT-CLASS-23-288J	c 25	N74-12813 *
US-PATENT-CLASS-220-335	c 45	N83-25217 *	US-PATENT-CLASS-228-211	c 37	N94-29557 *	US-PATENT-CLASS-23-288R	c 28	N80-10374 *
US-PATENT-CLASS-220-378	c 37	N82-24490 *	US-PATENT-CLASS-228-212	c 37	N80-23655 *	US-PATENT-CLASS-23-288	c 28	N72-18766 *
US-PATENT-CLASS-220-423	c 37	N80-18393 *	US-PATENT-CLASS-228-212	c 24	N84-11214 *	US-PATENT-CLASS-23-292	c 51	N77-27677 *
US-PATENT-CLASS-220-429	c 44	N80-20808 *	US-PATENT-CLASS-228-214	c 37	N76-18455 *	US-PATENT-CLASS-23-293R	c 28	N81-15119 *
US-PATENT-CLASS-220-445	c 37	N80-18393 *	US-PATENT-CLASS-228-222	c 37	N80-23655 *	US-PATENT-CLASS-23-295R	c 76	N85-29800 *
US-PATENT-CLASS-220-46	c 15	N71-27068 *	US-PATENT-CLASS-228-232	c 26	N77-28265 *	US-PATENT-CLASS-23-295R	c 76	N93-14707 *
US-PATENT-CLASS-220-5A	c 31	N89-29578 *	US-PATENT-CLASS-228-232	c 37	N94-29557 *	US-PATENT-CLASS-23-295R	c 76	N94-20528 *
US-PATENT-CLASS-220-5R	c 15	N72-22486 *	US-PATENT-CLASS-228-238	c 37	N76-18455 *	US-PATENT-CLASS-23-300	c 28	N80-23471 *
US-PATENT-CLASS-220-55	c 15	N69-27502 *	US-PATENT-CLASS-228-263.18	c 35	N83-35338 *	US-PATENT-CLASS-23-300	c 76	N93-14707 *
US-PATENT-CLASS-220-63	c 11	N70-38182 *	US-PATENT-CLASS-228-263	c 26	N77-29260 *	US-PATENT-CLASS-23-302A	c 28	N80-23471 *
US-PATENT-CLASS-220-67	c 15	N71-10577 *	US-PATENT-CLASS-228-44.1R	c 37	N80-23655 *	US-PATENT-CLASS-23-302R	c 28	N80-23471 *
US-PATENT-CLASS-220-82R	c 31	N81-19343 *	US-PATENT-CLASS-228-5.1	c 44	N79-24431 *	US-PATENT-CLASS-23-302T	c 28	N80-23471 *
US-PATENT-CLASS-220-89A	c 31	N81-19343 *	US-PATENT-CLASS-228-50	c 15	N70-39924 *	US-PATENT-CLASS-23-313R	c 71	N85-22104 *
US-PATENT-CLASS-220-89	c 11	N71-15960 *	US-PATENT-CLASS-228-50	c 15	N70-40204 *	US-PATENT-CLASS-23-35	c 06	N72-17093 *
US-PATENT-CLASS-220-89	c 11	N71-17600 *	US-PATENT-CLASS-228-53	c 15	N71-27214 *	US-PATENT-CLASS-23-88	c 06	N72-17093 *
US-PATENT-CLASS-220-901	c 37	N80-18393 *	US-PATENT-CLASS-228-57	c 15	N72-22491 *	US-PATENT-CLASS-23-927	c 51	N80-16714 *
US-PATENT-CLASS-220-901	c 31	N89-29578 *	US-PATENT-CLASS-228-6	c 44	N79-24431 *	US-PATENT-CLASS-23-97	c 06	N72-17093 *
US-PATENT-CLASS-220-908	c 31	N92-33612 *	US-PATENT-CLASS-228-7	c 15	N71-15607 *	US-PATENT-CLASS-230-162	c 33	N71-17610 *
US-PATENT-CLASS-220-9	c 23	N71-22881 *	US-PATENT-CLASS-228-8	c 15	N71-23050 *	US-PATENT-CLASS-230-221	c 11	N72-22245 *
US-PATENT-CLASS-220-9	c 18	N71-23658 *	US-PATENT-CLASS-228-8	c 37	N79-10421 *	US-PATENT-CLASS-230-54	c 11	N72-22245 *
US-PATENT-CLASS-220-9	c 15	N71-23816 *	US-PATENT-CLASS-228-9	c 15	N71-20393 *	US-PATENT-CLASS-233-DIG.1	c 34	N75-26282 *
US-PATENT-CLASS-220-9	c 33	N71-25351 *	US-PATENT-CLASS-229-DIG.11	c 32	N73-13921 *	US-PATENT-CLASS-233-11	c 15	N71-16079 *
US-PATENT-CLASS-221-265	c 51	N74-15778 *	US-PATENT-CLASS-23-109	c 04	N72-33072 *	US-PATENT-CLASS-233-20RP	c 34	N75-26282 *
US-PATENT-CLASS-222-131	c 31	N79-21225 *	US-PATENT-CLASS-23-201	c 06	N72-17095 *	US-PATENT-CLASS-233-25	c 34	N75-26282 *
US-PATENT-CLASS-222-135	c 15	N72-21465 *	US-PATENT-CLASS-23-208	c 15	N69-21922 *	US-PATENT-CLASS-233-46	c 34	N75-26282 *
US-PATENT-CLASS-222-137	c 14	N71-27005 *	US-PATENT-CLASS-23-208	c 26	N70-36805 *	US-PATENT-CLASS-233-6	c 34	N75-26282 *
US-PATENT-CLASS-222-145	c 37	N76-19436 *	US-PATENT-CLASS-23-209.1	c 15	N72-20446 *	US-PATENT-CLASS-235-150.27	c 04	N74-13420 *
US-PATENT-CLASS-222-187	c 31	N90-23587 *	US-PATENT-CLASS-23-230B	c 25	N75-14844 *	US-PATENT-CLASS-235-10.2	c 08	N73-25206 *
US-PATENT-CLASS-222-193	c 37	N74-13178 *	US-PATENT-CLASS-23-230B	c 23	N77-17161 *	US-PATENT-CLASS-235-150.1	c 08	N71-29033 *
US-PATENT-CLASS-222-309	c 15	N72-21465 *	US-PATENT-CLASS-23-230B	c 25	N79-14169 *	US-PATENT-CLASS-235-150.1	c 08	N73-11226 *
US-PATENT-CLASS-222-309	c 54	N74-12779 *	US-PATENT-CLASS-23-230B	c 51	N80-27067 *	US-PATENT-CLASS-235-150.1	c 32	N77-10392 *

US-PATENT-CLASS-235-150.22	c 02	N71-13421 *	US-PATENT-CLASS-235-92LG	c 33	N75-19519 *	US-PATENT-CLASS-239-533.13	c 34	N92-21724 *
US-PATENT-CLASS-235-150.22	c 04	N74-13420 *	US-PATENT-CLASS-235-92MT	c 08	N72-31226 *	US-PATENT-CLASS-239-533.2	c 20	N94-20370 *
US-PATENT-CLASS-235-150.25	c 21	N71-21688 *	US-PATENT-CLASS-235-92NT	c 32	N73-26910 *	US-PATENT-CLASS-239-543	c 28	N72-23809 *
US-PATENT-CLASS-235-150.25	c 35	N77-20399 *	US-PATENT-CLASS-235-92PC	c 35	N82-11431 *	US-PATENT-CLASS-239-543	c 31	N90-20254 *
US-PATENT-CLASS-235-150.26	c 04	N74-13420 *	US-PATENT-CLASS-235-92PE	c 37	N74-21056 *	US-PATENT-CLASS-239-543	c 34	N92-21724 *
US-PATENT-CLASS-235-150.27	c 08	N71-29033 *	US-PATENT-CLASS-235-92R	c 08	N72-20176 *	US-PATENT-CLASS-239-545	c 34	N87-21255 *
US-PATENT-CLASS-235-150.2	c 08	N71-29033 *	US-PATENT-CLASS-235-92R	c 08	N73-20217 *	US-PATENT-CLASS-239-546	c 34	N92-21724 *
US-PATENT-CLASS-235-150.2	c 35	N77-20399 *	US-PATENT-CLASS-235-92R	c 08	N73-25206 *	US-PATENT-CLASS-239-552	c 34	N92-21724 *
US-PATENT-CLASS-235-150.3	c 33	N74-10223 *	US-PATENT-CLASS-235-92R	c 33	N75-19519 *	US-PATENT-CLASS-239-562	c 43	N81-26509 *
US-PATENT-CLASS-235-150.52	c 08	N72-22165 *	US-PATENT-CLASS-235-92R	c 38	N77-17495 *	US-PATENT-CLASS-239-568	c 37	N84-16561 *
US-PATENT-CLASS-235-150.53	c 08	N72-22165 *	US-PATENT-CLASS-235-92SB	c 37	N74-21056 *	US-PATENT-CLASS-239-589	c 34	N82-13376 *
US-PATENT-CLASS-235-150.53	c 07	N73-13149 *	US-PATENT-CLASS-235-92SH	c 33	N76-14373 *	US-PATENT-CLASS-239-590	c 37	N85-29283 *
US-PATENT-CLASS-235-150.53	c 33	N75-26243 *	US-PATENT-CLASS-235-92T	c 03	N72-25020 *	US-PATENT-CLASS-239-591	c 43	N81-26509 *
US-PATENT-CLASS-235-151.13	c 25	N76-18245 *	US-PATENT-CLASS-235-92T	c 08	N73-20217 *	US-PATENT-CLASS-239-596	c 37	N87-24689 *
US-PATENT-CLASS-235-151.1	c 08	N71-29033 *	US-PATENT-CLASS-235-92T	c 33	N75-19519 *	US-PATENT-CLASS-239-597	c 31	N91-15424 *
US-PATENT-CLASS-235-151.1	c 08	N72-31226 *	US-PATENT-CLASS-235-92VA	c 33	N75-19519 *	US-PATENT-CLASS-239-600	c 37	N87-24689 *
US-PATENT-CLASS-235-151.27	c 08	N73-25206 *	US-PATENT-CLASS-235-92	c 08	N71-22897 *	US-PATENT-CLASS-239-601	c 34	N82-13376 *
US-PATENT-CLASS-235-151.31	c 10	N73-25240 *	US-PATENT-CLASS-235-92	c 08	N71-22891 *	US-PATENT-CLASS-239-601	c 31	N91-15424 *
US-PATENT-CLASS-235-151.34	c 35	N76-14431 *	US-PATENT-CLASS-235-92	c 10	N71-27137 *	US-PATENT-CLASS-239-602	c 34	N92-21724 *
US-PATENT-CLASS-235-151.3	c 52	N74-22771 *	US-PATENT-CLASS-235-92	c 14	N71-27215 *	US-PATENT-CLASS-239-690	c 28	N82-18401 *
US-PATENT-CLASS-235-151.3	c 38	N78-17395 *	US-PATENT-CLASS-236-1F	c 35	N81-26431 *	US-PATENT-CLASS-24-126	c 15	N71-22994 *
US-PATENT-CLASS-235-151.3	c 38	N78-17396 *	US-PATENT-CLASS-236-13	c 31	N80-32583 *	US-PATENT-CLASS-24-134R	c 15	N73-25512 *
US-PATENT-CLASS-235-151	c 37	N74-21056 *	US-PATENT-CLASS-236-15-E	c 25	N88-29002 *	US-PATENT-CLASS-24-205.17	c 15	N71-25975 *
US-PATENT-CLASS-235-152IE	c 08	N73-32081 *	US-PATENT-CLASS-236-1	c 33	N71-16357 *	US-PATENT-CLASS-24-211N	c 15	N72-11385 *
US-PATENT-CLASS-235-152	c 07	N71-24741 *	US-PATENT-CLASS-236-44A	c 35	N91-21496 *	US-PATENT-CLASS-24-211	c 15	N71-17653 *
US-PATENT-CLASS-235-152	c 08	N72-20176 *	US-PATENT-CLASS-236-44C	c 31	N80-32583 *	US-PATENT-CLASS-24-214	c 31	N83-31895 *
US-PATENT-CLASS-235-152	c 08	N72-22167 *	US-PATENT-CLASS-236-49	c 31	N74-27902 *	US-PATENT-CLASS-24-263	c 15	N71-21076 *
US-PATENT-CLASS-235-152	c 08	N72-25210 *	US-PATENT-CLASS-236-49	c 31	N80-32583 *	US-PATENT-CLASS-24-263	c 15	N71-26162 *
US-PATENT-CLASS-235-152	c 08	N73-12175 *	US-PATENT-CLASS-236-68	c 15	N72-12409 *	US-PATENT-CLASS-24-304	c 27	N85-20125 *
US-PATENT-CLASS-235-152	c 09	N73-13209 *	US-PATENT-CLASS-236-94	c 35	N91-21496 *	US-PATENT-CLASS-24-447	c 27	N85-20125 *
US-PATENT-CLASS-235-152	c 08	N73-26175 *	US-PATENT-CLASS-237-1A	c 44	N76-14602 *	US-PATENT-CLASS-24-450	c 27	N85-20125 *
US-PATENT-CLASS-235-152	c 60	N77-14751 *	US-PATENT-CLASS-237-1A	c 44	N78-10554 *	US-PATENT-CLASS-24-513	c 37	N94-29427 *
US-PATENT-CLASS-235-153AE	c 60	N76-21914 *	US-PATENT-CLASS-237-1A	c 44	N78-15560 *	US-PATENT-CLASS-24-560	c 52	N84-28388 *
US-PATENT-CLASS-235-153AK	c 62	N74-14920 *	US-PATENT-CLASS-237-1A	c 44	N78-17460 *	US-PATENT-CLASS-24-635	c 37	N90-17154 *
US-PATENT-CLASS-235-153	c 08	N71-24633 *	US-PATENT-CLASS-237-1A	c 44	N78-31525 *	US-PATENT-CLASS-24-688	c 54	N89-29953 *
US-PATENT-CLASS-235-153	c 08	N72-22166 *	US-PATENT-CLASS-237-1A	c 44	N79-24433 *	US-PATENT-CLASS-24-693	c 27	N85-20125 *
US-PATENT-CLASS-235-154	c 08	N70-34778 *	US-PATENT-CLASS-237-60	c 34	N76-17317 *	US-PATENT-CLASS-240-1.2	c 11	N70-33329 *
US-PATENT-CLASS-235-154	c 10	N71-23662 *	US-PATENT-CLASS-238-134	c 85	N74-34672 *	US-PATENT-CLASS-240-11.2	c 09	N71-26787 *
US-PATENT-CLASS-235-154	c 08	N72-18184 *	US-PATENT-CLASS-238-1	c 05	N71-28619 *	US-PATENT-CLASS-240-11.4	c 09	N71-26787 *
US-PATENT-CLASS-235-154	c 08	N72-25206 *	US-PATENT-CLASS-239-DIG.23	c 37	N85-29283 *	US-PATENT-CLASS-240-41.35R	c 74	N77-21941 *
US-PATENT-CLASS-235-155	c 08	N71-24890 *	US-PATENT-CLASS-239-102	c 37	N80-10494 *	US-PATENT-CLASS-240-41B	c 36	N75-27364 *
US-PATENT-CLASS-235-155	c 08	N72-21197 *	US-PATENT-CLASS-239-127.1	c 28	N71-23968 *	US-PATENT-CLASS-240-41R	c 74	N77-21941 *
US-PATENT-CLASS-235-155	c 08	N73-12176 *	US-PATENT-CLASS-239-127.1	c 28	N73-32606 *	US-PATENT-CLASS-240-46.13	c 74	N77-21941 *
US-PATENT-CLASS-235-156	c 08	N71-18693 *	US-PATENT-CLASS-239-127.1	c 34	N79-13288 *	US-PATENT-CLASS-240-47	c 34	N74-23066 *
US-PATENT-CLASS-235-156	c 60	N75-13539 *	US-PATENT-CLASS-239-127.1	c 34	N79-13289 *	US-PATENT-CLASS-240-51.11	c 09	N71-26787 *
US-PATENT-CLASS-235-156	c 32	N76-21366 *	US-PATENT-CLASS-239-127.1	c 34	N80-24573 *	US-PATENT-CLASS-241-95	c 37	N84-16561 *
US-PATENT-CLASS-235-156	c 32	N77-10392 *	US-PATENT-CLASS-239-127.1	c 44	N81-24519 *	US-PATENT-CLASS-242-107	c 33	N86-20669 *
US-PATENT-CLASS-235-156	c 38	N78-17395 *	US-PATENT-CLASS-239-127.1	c 20	N92-16318 *	US-PATENT-CLASS-242-128	c 15	N82-24272 *
US-PATENT-CLASS-235-156	c 38	N78-17396 *	US-PATENT-CLASS-239-127.3	c 37	N76-14191 *	US-PATENT-CLASS-242-187	c 37	N77-14479 *
US-PATENT-CLASS-235-158	c 08	N71-19437 *	US-PATENT-CLASS-239-127.3	c 07	N80-32392 *	US-PATENT-CLASS-242-192	c 14	N71-23698 *
US-PATENT-CLASS-235-164	c 08	N71-33110 *	US-PATENT-CLASS-239-127.3	c 37	N92-16318 *	US-PATENT-CLASS-242-193	c 37	N77-14479 *
US-PATENT-CLASS-235-164	c 08	N73-26175 *	US-PATENT-CLASS-239-132.5	c 20	N87-14420 *	US-PATENT-CLASS-242-204	c 37	N77-14479 *
US-PATENT-CLASS-235-164	c 60	N74-20836 *	US-PATENT-CLASS-239-14.1	c 09	N89-25242 *	US-PATENT-CLASS-242-210	c 37	N77-14479 *
US-PATENT-CLASS-235-175	c 08	N71-18602 *	US-PATENT-CLASS-239-145	c 31	N90-23587 *	US-PATENT-CLASS-242-54-R	c 33	N86-20669 *
US-PATENT-CLASS-235-175	c 08	N71-33110 *	US-PATENT-CLASS-239-171	c 37	N77-13418 *	US-PATENT-CLASS-242-54	c 15	N72-18477 *
US-PATENT-CLASS-235-176	c 08	N70-34787 *	US-PATENT-CLASS-239-2.1	c 09	N89-25242 *	US-PATENT-CLASS-242-55.19	c 14	N70-41647 *
US-PATENT-CLASS-235-181	c 07	N71-21476 *	US-PATENT-CLASS-239-265.11	c 18	N71-21068 *	US-PATENT-CLASS-242-55.19	c 07	N71-10609 *
US-PATENT-CLASS-235-181	c 07	N73-13149 *	US-PATENT-CLASS-239-265.11	c 07	N74-33218 *	US-PATENT-CLASS-242-57	c 37	N77-14479 *
US-PATENT-CLASS-235-181	c 35	N75-21582 *	US-PATENT-CLASS-239-265.11	c 07	N76-18117 *	US-PATENT-CLASS-244-12.2	c 05	N82-26277 *
US-PATENT-CLASS-235-181	c 33	N75-26243 *	US-PATENT-CLASS-239-265.11	c 37	N90-23751 *	US-PATENT-CLASS-244-1SS	c 03	N72-20031 *
US-PATENT-CLASS-235-181	c 43	N77-10584 *	US-PATENT-CLASS-239-265.11	c 37	N91-27560 *	US-PATENT-CLASS-244-1.55	c 03	N73-20040 *
US-PATENT-CLASS-235-181	c 38	N78-17395 *	US-PATENT-CLASS-239-265.11	c 37	N92-22043 *	US-PATENT-CLASS-244-1-R	c 06	N87-22678 *
US-PATENT-CLASS-235-183	c 08	N72-22165 *	US-PATENT-CLASS-239-265.15	c 37	N79-22474 *	US-PATENT-CLASS-244-1A	c 33	N77-10429 *
US-PATENT-CLASS-235-184	c 74	N76-18913 *	US-PATENT-CLASS-239-265.17	c 07	N74-27490 *	US-PATENT-CLASS-244-1A	c 24	N94-20539 *
US-PATENT-CLASS-235-186	c 10	N73-26230 *	US-PATENT-CLASS-239-265.17	c 07	N83-33884 *	US-PATENT-CLASS-244-1R	c 34	N79-31523 *
US-PATENT-CLASS-235-194	c 09	N71-19480 *	US-PATENT-CLASS-239-265.17	c 71	N84-14873 *	US-PATENT-CLASS-244-1R	c 35	N90-22569 *
US-PATENT-CLASS-235-194	c 08	N72-22165 *	US-PATENT-CLASS-239-265.17	c 20	N89-25279 *	US-PATENT-CLASS-244-1R	c 37	N94-20687 *
US-PATENT-CLASS-235-194	c 10	N73-26230 *	US-PATENT-CLASS-239-265.19	c 28	N71-21493 *	US-PATENT-CLASS-244-1SA	c 21	N72-21624 *
US-PATENT-CLASS-235-197	c 08	N72-22165 *	US-PATENT-CLASS-239-265.19	c 28	N72-11708 *	US-PATENT-CLASS-244-1SA	c 21	N72-25595 *
US-PATENT-CLASS-235-197	c 09	N72-23173 *	US-PATENT-CLASS-239-265.25	c 07	N78-27121 *	US-PATENT-CLASS-244-1SA	c 03	N73-20039 *
US-PATENT-CLASS-235-197	c 10	N73-20253 *	US-PATENT-CLASS-239-265.25	c 09	N78-31129 *	US-PATENT-CLASS-244-1SA	c 15	N73-25513 *
US-PATENT-CLASS-235-197	c 10	N73-26230 *	US-PATENT-CLASS-239-265.33	c 07	N78-27121 *	US-PATENT-CLASS-244-1SA	c 21	N73-30640 *
US-PATENT-CLASS-235-197	c 60	N75-13539 *	US-PATENT-CLASS-239-265.33	c 07	N80-32392 *	US-PATENT-CLASS-244-1SA	c 19	N74-15089 *
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US-PATENT-CLASS-307-273	c 10	N71-18723 *	US-PATENT-CLASS-307-88.5	c 10	N71-15910 *	US-PATENT-CLASS-310-112	c 37	N92-33634 *
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US-PATENT-CLASS-307-273	c 09	N71-29139 *	US-PATENT-CLASS-307-88	c 08	N70-34743 *	US-PATENT-CLASS-310-11	c 14	N72-22439 *
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US-PATENT-CLASS-307-280	c 33	N77-21314 *	US-PATENT-CLASS-307-88	c 09	N71-24803 *	US-PATENT-CLASS-310-11	c 35	N74-21018 *
US-PATENT-CLASS-307-284	c 09	N72-22201 *	US-PATENT-CLASS-307-88	c 09	N71-26000 *	US-PATENT-CLASS-310-11	c 36	N75-32441 *
US-PATENT-CLASS-307-288	c 09	N71-23015 *	US-PATENT-CLASS-307-92	c 09	N72-27227 *	US-PATENT-CLASS-310-11	c 44	N83-28573 *
US-PATENT-CLASS-307-288	c 09	N71-28468 *	US-PATENT-CLASS-307-98	c 33	N79-28415 *	US-PATENT-CLASS-310-11	c 27	N91-14489 *
US-PATENT-CLASS-307-288	c 10	N72-20221 *	US-PATENT-CLASS-308-DIG.1	c 15	N72-17451 *	US-PATENT-CLASS-310-12	c 33	N82-24421 *
US-PATENT-CLASS-307-288	c 09	N72-22202 *	US-PATENT-CLASS-308-DIG.1	c 37	N79-10418 *	US-PATENT-CLASS-310-12	c 37	N83-32067 *
US-PATENT-CLASS-307-289	c 10	N71-19547 *	US-PATENT-CLASS-308-DIG.8	c 24	N79-17916 *	US-PATENT-CLASS-310-153	c 44	N78-24608 *
US-PATENT-CLASS-307-28	c 03	N73-31988 *	US-PATENT-CLASS-308-DIG.9	c 24	N79-17916 *	US-PATENT-CLASS-310-154	c 44	N78-24608 *
US-PATENT-CLASS-307-290	c 33	N74-22814 *	US-PATENT-CLASS-308-10	c 15	N71-22997 *	US-PATENT-CLASS-310-154	c 35	N84-28017 *
US-PATENT-CLASS-307-291	c 60	N81-15706 *	US-PATENT-CLASS-308-10	c 15	N72-33476 *	US-PATENT-CLASS-310-15	c 09	N72-25255 *
US-PATENT-CLASS-307-294	c 09	N71-29139 *	US-PATENT-CLASS-308-10	c 35	N74-18323 *	US-PATENT-CLASS-310-15	c 44	N83-28574 *
US-PATENT-CLASS-307-295	c 10	N72-17171 *	US-PATENT-CLASS-308-10	c 37	N75-18574 *	US-PATENT-CLASS-310-15	c 33	N87-23904 *
US-PATENT-CLASS-307-295	c 10	N72-20223 *	US-PATENT-CLASS-308-10	c 37	N76-18459 *	US-PATENT-CLASS-310-168	c 09	N71-25999 *
US-PATENT-CLASS-307-295	c 09	N72-21245 *	US-PATENT-CLASS-308-10	c 37	N77-17464 *	US-PATENT-CLASS-310-168	c 33	N77-26387 *
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US-PATENT-CLASS-307-296.2	c 33	N92-16196 *	US-PATENT-CLASS-308-10	c 71	N81-15767 *	US-PATENT-CLASS-310-22	c 31	N85-21404 *
US-PATENT-CLASS-307-296.7	c 33	N92-16196 *	US-PATENT-CLASS-308-10	c 44	N83-28574 *	US-PATENT-CLASS-310-231	c 33	N79-20314 *
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US-PATENT-CLASS-307-296	c 07	N71-28430 *	US-PATENT-CLASS-308-10	c 37	N83-34323 *	US-PATENT-CLASS-310-265	c 33	N92-15331 *
US-PATENT-CLASS-307-297	c 33	N78-17294 *	US-PATENT-CLASS-308-10	c 71	N83-36846 *	US-PATENT-CLASS-310-269	c 44	N78-24608 *
US-PATENT-CLASS-307-299	c 08	N72-21198 *	US-PATENT-CLASS-308-10	c 37	N85-20337 *	US-PATENT-CLASS-310-26	c 71	N79-20827 *
US-PATENT-CLASS-307-299	c 26	N72-21701 *	US-PATENT-CLASS-308-121	c 37	N74-32921 *	US-PATENT-CLASS-310-26	c 33	N92-15331 *
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US-PATENT-CLASS-307-304	c 09	N72-22201 *	US-PATENT-CLASS-308-160	c 37	N76-29588 *	US-PATENT-CLASS-310-306	c 34	N85-29179 *

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US-PATENT-CLASS-310-322 c 71 N79-20827 *
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US-PATENT-CLASS-310-324 c 33 N86-20671 *
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US-PATENT-CLASS-310-326 c 38 N79-14398 *
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US-PATENT-CLASS-324-681	c 33	N93-26104 *	US-PATENT-CLASS-325-14	c 17	N76-21250 *	US-PATENT-CLASS-325-58	c 07	N72-11149 *
US-PATENT-CLASS-324-683	c 33	N93-26104 *	US-PATENT-CLASS-325-14	c 32	N80-20448 *	US-PATENT-CLASS-325-58	c 07	N72-20140 *
US-PATENT-CLASS-324-687	c 63	N93-14701 *	US-PATENT-CLASS-325-151.11	c 08	N71-27057 *	US-PATENT-CLASS-325-58	c 07	N72-25173 *
US-PATENT-CLASS-324-690	c 33	N93-26104 *	US-PATENT-CLASS-325-159	c 33	N78-23240 *	US-PATENT-CLASS-325-58	c 32	N78-15323 *
US-PATENT-CLASS-324-699	c 39	N93-29612 *	US-PATENT-CLASS-325-163	c 07	N71-23405 *	US-PATENT-CLASS-325-58	c 32	N79-20296 *
US-PATENT-CLASS-324-70	c 14	N70-41332 *	US-PATENT-CLASS-325-16	c 07	N71-27056 *	US-PATENT-CLASS-325-5	c 07	N73-20174 *
US-PATENT-CLASS-324-70	c 14	N71-22990 *	US-PATENT-CLASS-325-17	c 07	N73-20174 *	US-PATENT-CLASS-325-60	c 08	N71-19763 *
US-PATENT-CLASS-324-70	c 10	N71-24863 *	US-PATENT-CLASS-325-185	c 07	N71-28430 *	US-PATENT-CLASS-325-60	c 07	N73-16121 *
US-PATENT-CLASS-324-71.3	c 72	N84-28575 *	US-PATENT-CLASS-325-186	c 03	N76-32140 *	US-PATENT-CLASS-325-60	c 32	N75-24981 *
US-PATENT-CLASS-324-71.5	c 76	N85-30923 *	US-PATENT-CLASS-325-187	c 33	N78-32340 *	US-PATENT-CLASS-325-61	c 07	N73-25160 *
US-PATENT-CLASS-324-71CP	c 35	N76-22509 *	US-PATENT-CLASS-325-23	c 07	N71-27056 *	US-PATENT-CLASS-325-62	c 08	N72-25208 *
US-PATENT-CLASS-324-71CP	c 35	N82-11431 *	US-PATENT-CLASS-325-29	c 09	N72-22022 *	US-PATENT-CLASS-325-62	c 44	N74-19870 *
US-PATENT-CLASS-324-71R	c 09	N72-21246 *	US-PATENT-CLASS-325-302	c 07	N72-25173 *	US-PATENT-CLASS-325-63	c 10	N71-19467 *
US-PATENT-CLASS-324-71R	c 15	N72-21464 *	US-PATENT-CLASS-325-304	c 32	N76-14321 *	US-PATENT-CLASS-325-63	c 07	N73-20174 *
US-PATENT-CLASS-324-718	c 39	N93-29612 *	US-PATENT-CLASS-325-305	c 07	N71-10775 *	US-PATENT-CLASS-325-63	c 32	N78-15323 *
US-PATENT-CLASS-324-71	c 09	N71-24843 *	US-PATENT-CLASS-325-305	c 10	N71-20841 *	US-PATENT-CLASS-325-63	c 32	N79-20296 *
US-PATENT-CLASS-324-72.5	c 44	N74-27519 *	US-PATENT-CLASS-325-305	c 07	N71-23098 *	US-PATENT-CLASS-325-64	c 07	N72-25173 *
US-PATENT-CLASS-324-72.5	c 72	N84-28575 *	US-PATENT-CLASS-325-305	c 32	N80-18253 *	US-PATENT-CLASS-325-65	c 07	N70-41331 *
US-PATENT-CLASS-324-72	c 10	N71-19421 *	US-PATENT-CLASS-325-306	c 32	N76-14321 *	US-PATENT-CLASS-325-65	c 07	N70-41372 *
US-PATENT-CLASS-324-72	c 14	N71-23699 *	US-PATENT-CLASS-325-307	c 32	N80-18253 *	US-PATENT-CLASS-325-65	c 07	N71-11284 *
US-PATENT-CLASS-324-72	c 07	N73-20175 *	US-PATENT-CLASS-325-30	c 32	N74-26654 *	US-PATENT-CLASS-325-65	c 32	N77-30308 *
US-PATENT-CLASS-324-72	c 14	N73-32318 *	US-PATENT-CLASS-325-30	c 32	N75-24981 *	US-PATENT-CLASS-325-66	c 17	N78-17140 *
US-PATENT-CLASS-324-72	c 33	N74-27862 *	US-PATENT-CLASS-325-30	c 32	N77-30308 *	US-PATENT-CLASS-325-67	c 07	N71-26292 *
US-PATENT-CLASS-324-72	c 33	N75-26246 *	US-PATENT-CLASS-325-31	c 07	N71-20791 *	US-PATENT-CLASS-325-67	c 10	N73-25241 *
US-PATENT-CLASS-324-72	c 33	N77-10429 *	US-PATENT-CLASS-325-320	c 33	N74-12887 *	US-PATENT-CLASS-325-67	c 35	N75-21582 *
US-PATENT-CLASS-324-72	c 33	N79-10337 *	US-PATENT-CLASS-325-320	c 32	N74-20809 *	US-PATENT-CLASS-325-67	c 32	N79-11265 *
US-PATENT-CLASS-324-72	c 33	N79-14305 *	US-PATENT-CLASS-325-320	c 32	N74-20811 *	US-PATENT-CLASS-325-7	c 07	N73-20174 *
US-PATENT-CLASS-324-72	c 47	N82-24779 *	US-PATENT-CLASS-325-320	c 33	N74-27705 *	US-PATENT-CLASS-325-8	c 07	N73-20174 *
US-PATENT-CLASS-324-72	c 47	N93-10108 *	US-PATENT-CLASS-325-321	c 07	N72-20140 *	US-PATENT-CLASS-325-8	c 32	N80-20448 *
US-PATENT-CLASS-324-73AT	c 08	N72-22166 *	US-PATENT-CLASS-325-321	c 32	N74-20810 *	US-PATENT-CLASS-325-9	c 07	N73-20174 *
US-PATENT-CLASS-324-73AT	c 33	N81-26359 *	US-PATENT-CLASS-325-321	c 32	N76-16249 *	US-PATENT-CLASS-325-9	c 32	N80-20448 *
US-PATENT-CLASS-324-73R	c 33	N83-18996 *	US-PATENT-CLASS-325-323	c 32	N77-10392 *	US-PATENT-CLASS-328-104	c 08	N72-22162 *
US-PATENT-CLASS-324-73	c 14	N71-28991 *	US-PATENT-CLASS-325-325	c 07	N71-24613 *	US-PATENT-CLASS-328-104	c 10	N73-13235 *
US-PATENT-CLASS-324-74	c 35	N78-28411 *	US-PATENT-CLASS-325-325	c 07	N72-25173 *	US-PATENT-CLASS-328-106	c 09	N72-22201 *
US-PATENT-CLASS-324-77-E	c 33	N89-14385 *	US-PATENT-CLASS-325-325	c 07	N73-13149 *	US-PATENT-CLASS-328-110	c 09	N71-12519 *
US-PATENT-CLASS-324-77-R	c 33	N89-14385 *	US-PATENT-CLASS-325-346	c 10	N73-16205 *	US-PATENT-CLASS-328-111	c 60	N77-12721 *
US-PATENT-CLASS-324-77B	c 60	N75-13539 *	US-PATENT-CLASS-325-346	c 32	N74-30523 *	US-PATENT-CLASS-328-115	c 33	N75-18479 *
US-PATENT-CLASS-324-77B	c 32	N79-10262 *	US-PATENT-CLASS-325-346	c 32	N77-24331 *	US-PATENT-CLASS-328-116	c 09	N69-39885 *
US-PATENT-CLASS-324-77CS	c 32	N92-29124 *	US-PATENT-CLASS-325-347	c 07	N71-33696 *	US-PATENT-CLASS-328-120	c 09	N71-27016 *
US-PATENT-CLASS-324-77C	c 32	N79-10262 *	US-PATENT-CLASS-325-348	c 07	N71-33696 *	US-PATENT-CLASS-328-123	c 60	N74-12888 *
US-PATENT-CLASS-324-77C	c 32	N92-29124 *	US-PATENT-CLASS-325-349	c 32	N77-10392 *	US-PATENT-CLASS-328-129	c 14	N73-30386 *
US-PATENT-CLASS-324-77G	c 08	N72-20177 *	US-PATENT-CLASS-325-363	c 07	N71-11267 *	US-PATENT-CLASS-328-133	c 09	N71-24596 *
US-PATENT-CLASS-324-77H	c 35	N75-21582 *	US-PATENT-CLASS-325-363	c 14	N71-26774 *	US-PATENT-CLASS-328-133	c 10	N72-20224 *
US-PATENT-CLASS-324-77K	c 35	N79-10391 *	US-PATENT-CLASS-325-363	c 14	N72-28437 *	US-PATENT-CLASS-328-133	c 33	N75-26243 *

US-PATENT-CLASS-328-133	c 33	N77-13315 *	US-PATENT-CLASS-328-67	c 33	N82-24418 *	US-PATENT-CLASS-33-72	c 15	N72-11386 *
US-PATENT-CLASS-328-133	c 33	N79-11313 *	US-PATENT-CLASS-328-67	c 33	N88-24862 *	US-PATENT-CLASS-33-75R	c 14	N72-28436 *
US-PATENT-CLASS-328-133	c 33	N84-16454 *	US-PATENT-CLASS-328-71	c 60	N81-15706 *	US-PATENT-CLASS-33-96	c 33	N75-30430 *
US-PATENT-CLASS-328-134	c 08	N71-18692 *	US-PATENT-CLASS-328-92	c 10	N71-28860 *	US-PATENT-CLASS-330-103	c 32	N74-22096 *
US-PATENT-CLASS-328-134	c 14	N73-30386 *	US-PATENT-CLASS-329-104	c 07	N71-11282 *	US-PATENT-CLASS-330-107	c 10	N72-11256 *
US-PATENT-CLASS-328-134	c 33	N76-16331 *	US-PATENT-CLASS-329-104	c 33	N74-12887 *	US-PATENT-CLASS-330-107	c 10	N72-17172 *
US-PATENT-CLASS-328-134	c 33	N81-17349 *	US-PATENT-CLASS-329-107	c 32	N77-24331 *	US-PATENT-CLASS-330-107	c 33	N84-14421 *
US-PATENT-CLASS-328-136	c 09	N72-25257 *	US-PATENT-CLASS-329-107	c 35	N81-19427 *	US-PATENT-CLASS-330-107	c 33	N87-22895 *
US-PATENT-CLASS-328-140	c 09	N72-25257 *	US-PATENT-CLASS-329-107	c 32	N87-21207 *	US-PATENT-CLASS-330-109	c 10	N72-11256 *
US-PATENT-CLASS-328-142	c 09	N72-21245 *	US-PATENT-CLASS-329-119	c 33	N77-21314 *	US-PATENT-CLASS-330-109	c 10	N72-17171 *
US-PATENT-CLASS-328-145	c 32	N76-14321 *	US-PATENT-CLASS-329-120	c 07	N73-30113 *	US-PATENT-CLASS-330-109	c 10	N72-17172 *
US-PATENT-CLASS-328-145	c 09	N72-23173 *	US-PATENT-CLASS-329-122	c 10	N71-19469 *	US-PATENT-CLASS-330-109	c 09	N73-20231 *
US-PATENT-CLASS-328-145	c 33	N78-32339 *	US-PATENT-CLASS-329-122	c 07	N73-28012 *	US-PATENT-CLASS-330-109	c 33	N82-24417 *
US-PATENT-CLASS-328-147	c 33	N87-21235 *	US-PATENT-CLASS-329-122	c 33	N74-12887 *	US-PATENT-CLASS-330-109	c 33	N84-14421 *
US-PATENT-CLASS-328-150	c 33	N78-18308 *	US-PATENT-CLASS-329-122	c 32	N74-20811 *	US-PATENT-CLASS-330-109	c 33	N84-22887 *
US-PATENT-CLASS-328-151	c 09	N72-22200 *	US-PATENT-CLASS-329-122	c 33	N77-14334 *	US-PATENT-CLASS-330-110	c 33	N74-14939 *
US-PATENT-CLASS-328-151	c 33	N75-18479 *	US-PATENT-CLASS-329-122	c 32	N77-24331 *	US-PATENT-CLASS-330-110	c 33	N83-36356 *
US-PATENT-CLASS-328-151	c 33	N81-27396 *	US-PATENT-CLASS-329-122	c 32	N79-14267 *	US-PATENT-CLASS-330-11	c 09	N71-13531 *
US-PATENT-CLASS-328-151	c 33	N91-14550 *	US-PATENT-CLASS-329-124	c 33	N81-33405 *	US-PATENT-CLASS-330-11	c 10	N71-33129 *
US-PATENT-CLASS-328-154	c 08	N72-22162 *	US-PATENT-CLASS-329-124	c 33	N77-14334 *	US-PATENT-CLASS-330-11	c 09	N72-17156 *
US-PATENT-CLASS-328-154	c 10	N73-13235 *	US-PATENT-CLASS-329-124	c 33	N78-32338 *	US-PATENT-CLASS-330-124	c 07	N71-28430 *
US-PATENT-CLASS-328-154	c 33	N74-22814 *	US-PATENT-CLASS-329-126	c 32	N84-27952 *	US-PATENT-CLASS-330-12	c 10	N72-32320 *
US-PATENT-CLASS-328-155	c 10	N72-16172 *	US-PATENT-CLASS-329-140	c 07	N71-24583 *	US-PATENT-CLASS-330-13	c 10	N71-26415 *
US-PATENT-CLASS-328-155	c 09	N72-33204 *	US-PATENT-CLASS-329-145	c 07	N71-33696 *	US-PATENT-CLASS-330-13	c 33	N75-30428 *
US-PATENT-CLASS-328-155	c 33	N74-17927 *	US-PATENT-CLASS-329-161	c 07	N72-20141 *	US-PATENT-CLASS-330-14	c 09	N70-35440 *
US-PATENT-CLASS-328-155	c 17	N76-22245 *	US-PATENT-CLASS-329-162	c 07	N72-20141 *	US-PATENT-CLASS-330-14	c 33	N77-14335 *
US-PATENT-CLASS-328-155	c 32	N88-29076 *	US-PATENT-CLASS-329-166	c 33	N75-19520 *	US-PATENT-CLASS-330-16	c 10	N71-33129 *
US-PATENT-CLASS-328-160	c 32	N74-19788 *	US-PATENT-CLASS-329-166	c 33	N75-25041 *	US-PATENT-CLASS-330-176	c 10	N72-17171 *
US-PATENT-CLASS-328-161	c 33	N77-17354 *	US-PATENT-CLASS-329-204	c 33	N75-19520 *	US-PATENT-CLASS-330-18	c 09	N72-17155 *
US-PATENT-CLASS-328-163	c 33	N79-10338 *	US-PATENT-CLASS-329-204	c 33	N75-25041 *	US-PATENT-CLASS-330-18	c 33	N75-30428 *
US-PATENT-CLASS-328-164	c 07	N71-33696 *	US-PATENT-CLASS-329-205	c 33	N77-21314 *	US-PATENT-CLASS-330-200	c 07	N71-28430 *
US-PATENT-CLASS-328-164	c 33	N87-21235 *	US-PATENT-CLASS-329-304	c 32	N91-25318 *	US-PATENT-CLASS-330-207A	c 33	N75-30429 *
US-PATENT-CLASS-328-165	c 09	N71-24806 *	US-PATENT-CLASS-329-304	c 32	N91-27439 *	US-PATENT-CLASS-330-20	c 09	N73-20232 *
US-PATENT-CLASS-328-165	c 07	N71-33696 *	US-PATENT-CLASS-329-306	c 04	N91-14321 *	US-PATENT-CLASS-330-22	c 09	N71-10798 *
US-PATENT-CLASS-328-166	c 10	N72-20223 *	US-PATENT-CLASS-329-310	c 32	N92-21712 *	US-PATENT-CLASS-330-22	c 09	N73-20232 *
US-PATENT-CLASS-328-166	c 33	N82-29539 *	US-PATENT-CLASS-329-349	c 33	N91-26438 *	US-PATENT-CLASS-330-24	c 10	N71-33129 *
US-PATENT-CLASS-328-167	c 10	N71-22986 *	US-PATENT-CLASS-329-363	c 33	N91-26438 *	US-PATENT-CLASS-330-24	c 33	N75-30429 *
US-PATENT-CLASS-328-167	c 08	N71-29034 *	US-PATENT-CLASS-329-50	c 33	N91-14550 *	US-PATENT-CLASS-330-258	c 33	N86-20670 *
US-PATENT-CLASS-328-167	c 10	N72-17171 *	US-PATENT-CLASS-329-50	c 33	N74-17930 *	US-PATENT-CLASS-330-261	c 33	N86-20670 *
US-PATENT-CLASS-328-167	c 09	N72-21245 *	US-PATENT-CLASS-329-50	c 35	N81-19427 *	US-PATENT-CLASS-330-26	c 10	N72-17172 *
US-PATENT-CLASS-328-167	c 09	N73-20231 *	US-PATENT-CLASS-33.8UB	c 27	N81-15104 *	US-PATENT-CLASS-330-27R	c 10	N72-31273 *
US-PATENT-CLASS-328-167	c 08	N73-26175 *	US-PATENT-CLASS-33.DIG.13	c 35	N75-12273 *	US-PATENT-CLASS-330-277	c 33	N84-22887 *
US-PATENT-CLASS-328-167	c 33	N82-24417 *	US-PATENT-CLASS-33.DIG.3	c 04	N84-14132 *	US-PATENT-CLASS-330-282	c 33	N83-36356 *
US-PATENT-CLASS-328-167	c 33	N85-29145 *	US-PATENT-CLASS-33-1G	c 37	N76-21554 *	US-PATENT-CLASS-330-289	c 33	N83-34191 *
US-PATENT-CLASS-328-168	c 32	N74-19788 *	US-PATENT-CLASS-33-1M	c 35	N74-32877 *	US-PATENT-CLASS-330-289	c 33	N84-16454 *
US-PATENT-CLASS-328-168	c 10	N72-20223 *	US-PATENT-CLASS-33-1N	c 43	N79-26439 *	US-PATENT-CLASS-330-28	c 33	N74-21851 *
US-PATENT-CLASS-328-171	c 10	N71-24844 *	US-PATENT-CLASS-33-1Q	c 43	N79-26439 *	US-PATENT-CLASS-330-28	c 33	N77-14335 *
US-PATENT-CLASS-328-172	c 32	N74-19788 *	US-PATENT-CLASS-33-1SA	c 14	N72-28436 *	US-PATENT-CLASS-330-290	c 33	N82-24417 *
US-PATENT-CLASS-328-172	c 33	N78-17294 *	US-PATENT-CLASS-33-1SA	c 19	N74-21015 *	US-PATENT-CLASS-330-294	c 33	N82-24417 *
US-PATENT-CLASS-328-186	c 09	N72-17157 *	US-PATENT-CLASS-33-10	c 35	N92-22039 *	US-PATENT-CLASS-330-294	c 33	N84-22887 *
US-PATENT-CLASS-328-187	c 10	N73-20254 *	US-PATENT-CLASS-33-125R	c 52	N80-27072 *	US-PATENT-CLASS-330-294	c 33	N87-22895 *
US-PATENT-CLASS-328-189	c 14	N72-27408 *	US-PATENT-CLASS-33-125	c 14	N72-11364 *	US-PATENT-CLASS-330-29	c 09	N69-24330 #
US-PATENT-CLASS-328-190	c 33	N76-14371 *	US-PATENT-CLASS-33-143C	c 52	N82-22875 *	US-PATENT-CLASS-330-29	c 10	N72-28321 *
US-PATENT-CLASS-328-192	c 60	N81-15706 *	US-PATENT-CLASS-33-147D	c 37	N88-14361 *	US-PATENT-CLASS-330-2	c 09	N69-39986 #
US-PATENT-CLASS-328-1	c 23	N71-16099 *	US-PATENT-CLASS-33-147	c 15	N71-19489 *	US-PATENT-CLASS-330-2	c 09	N72-25250 *
US-PATENT-CLASS-328-1	c 10	N71-19472 *	US-PATENT-CLASS-33-148D	c 35	N75-19615 *	US-PATENT-CLASS-330-2	c 33	N78-10375 *
US-PATENT-CLASS-328-1	c 09	N72-22200 *	US-PATENT-CLASS-33-149	c 14	N71-17657 *	US-PATENT-CLASS-330-2	c 33	N79-22373 *
US-PATENT-CLASS-328-1	c 63	N94-29466 *	US-PATENT-CLASS-33-15A	c 08	N72-11172 *	US-PATENT-CLASS-330-30D	c 10	N72-20221 *
US-PATENT-CLASS-328-207	c 09	N71-28468 *	US-PATENT-CLASS-33-15D	c 35	N92-22039 *	US-PATENT-CLASS-330-30D	c 09	N73-20232 *
US-PATENT-CLASS-328-207	c 10	N71-28860 *	US-PATENT-CLASS-33-155R	c 33	N76-19338 *	US-PATENT-CLASS-330-302	c 33	N85-29145 *
US-PATENT-CLASS-328-207	c 09	N71-29139 *	US-PATENT-CLASS-33-169F	c 35	N84-28018 *	US-PATENT-CLASS-330-306	c 33	N82-24417 *
US-PATENT-CLASS-328-207	c 10	N72-20221 *	US-PATENT-CLASS-33-174B	c 37	N76-21554 *	US-PATENT-CLASS-330-306	c 33	N85-29145 *
US-PATENT-CLASS-328-20	c 10	N72-20223 *	US-PATENT-CLASS-33-174D	c 33	N76-19338 *	US-PATENT-CLASS-330-30	c 09	N71-19466 *
US-PATENT-CLASS-328-230	c 35	N84-12444 *	US-PATENT-CLASS-33-174L	c 43	N79-26439 *	US-PATENT-CLASS-330-30	c 09	N71-19516 *
US-PATENT-CLASS-328-233	c 10	N71-22962 *	US-PATENT-CLASS-33-174S	c 14	N72-22445 *	US-PATENT-CLASS-330-30	c 09	N71-27016 *
US-PATENT-CLASS-328-233	c 75	N75-13625 *	US-PATENT-CLASS-33-174	c 14	N69-21363 #	US-PATENT-CLASS-330-310	c 33	N83-34191 *
US-PATENT-CLASS-328-233	c 37	N78-17386 *	US-PATENT-CLASS-33-174	c 14	N71-17658 *	US-PATENT-CLASS-330-311	c 33	N86-20670 *
US-PATENT-CLASS-328-24	c 09	N72-33204 *	US-PATENT-CLASS-33-174	c 14	N71-24693 *	US-PATENT-CLASS-330-31	c 10	N71-26331 *
US-PATENT-CLASS-328-28	c 33	N87-21235 *	US-PATENT-CLASS-33-180R	c 35	N75-12273 *	US-PATENT-CLASS-330-31	c 10	N72-17172 *
US-PATENT-CLASS-328-37	c 08	N71-12503 *	US-PATENT-CLASS-33-189	c 15	N71-26145 *	US-PATENT-CLASS-330-35	c 09	N72-17156 *
US-PATENT-CLASS-328-37	c 10	N73-20254 *	US-PATENT-CLASS-33-19.2	c 35	N92-10186 *	US-PATENT-CLASS-330-35	c 09	N73-20232 *
US-PATENT-CLASS-328-37	c 33	N76-14373 *	US-PATENT-CLASS-33-1	c 14	N70-36907 *	US-PATENT-CLASS-330-35	c 33	N74-14939 *
US-PATENT-CLASS-328-37	c 33	N81-17349 *	US-PATENT-CLASS-33-204C	c 08	N72-11172 *	US-PATENT-CLASS-330-4.3	c 16	N73-32391 *
US-PATENT-CLASS-328-38	c 10	N72-20223 *	US-PATENT-CLASS-33-207	c 15	N71-15571 *	US-PATENT-CLASS-330-4.3	c 36	N75-19655 *
US-PATENT-CLASS-328-38	c 33	N77-24375 *	US-PATENT-CLASS-33-23.02	c 35	N92-10186 *	US-PATENT-CLASS-330-4.3	c 36	N75-27364 *
US-PATENT-CLASS-328-39	c 33	N77-24375 *	US-PATENT-CLASS-33-23R	c 35	N74-32877 *	US-PATENT-CLASS-330-4.3	c 36	N75-32441 *
US-PATENT-CLASS-328-4.8	c 33	N77-24375 *	US-PATENT-CLASS-33-261	c 35	N91-14591 *	US-PATENT-CLASS-330-4.3	c 36	N76-29575 *
US-PATENT-CLASS-328-41	c 33	N75-31330 *	US-PATENT-CLASS-33-263	c 09	N91-14356 *	US-PATENT-CLASS-330-4.3	c 36	N77-25502 *
US-PATENT-CLASS-328-42	c 08	N71-19432 *	US-PATENT-CLASS-33-268	c 89	N74-30886 *	US-PATENT-CLASS-330-4.3	c 73	N78-19920 *
US-PATENT-CLASS-328-44	c 08	N71-29034 *	US-PATENT-CLASS-33-285	c 36	N74-21091 *	US-PATENT-CLASS-330-4.5	c 36	N82-28616 *
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US-PATENT-CLASS-340-347	c 08	N71-19435 *	US-PATENT-CLASS-343-DIG2	c 07	N83-20944 *	US-PATENT-CLASS-343-179	c 07	N72-11149 *
US-PATENT-CLASS-340-347	c 08	N71-19544 *	US-PATENT-CLASS-343-100AP	c 33	N83-36355 *	US-PATENT-CLASS-343-179	c 07	N73-20174 *
US-PATENT-CLASS-340-347	c 08	N71-19687 *	US-PATENT-CLASS-343-100CL	c 32	N77-32342 *	US-PATENT-CLASS-343-179	c 32	N78-15323 *
US-PATENT-CLASS-340-347	c 08	N71-24650 *	US-PATENT-CLASS-343-100CL	c 32	N79-14268 *	US-PATENT-CLASS-343-179	c 32	N79-20296 *
US-PATENT-CLASS-340-347	c 10	N71-25917 *	US-PATENT-CLASS-343-100CL	c 32	N81-29308 *	US-PATENT-CLASS-343-18A	c 32	N80-14281 *
US-PATENT-CLASS-340-347	c 10	N71-26544 *	US-PATENT-CLASS-343-100CL	c 32	N83-18975 *	US-PATENT-CLASS-343-18B	c 32	N74-12912 *
US-PATENT-CLASS-340-347	c 08	N73-28045 *	US-PATENT-CLASS-343-100CL	c 32	N83-19968 *	US-PATENT-CLASS-343-18B	c 32	N77-21267 *
US-PATENT-CLASS-340-348	c 08	N72-22167 *	US-PATENT-CLASS-343-100ME	c 14	N72-28437 *	US-PATENT-CLASS-343-18B	c 43	N80-18498 *
US-PATENT-CLASS-340-38P	c 66	N76-18888 *	US-PATENT-CLASS-343-100ME	c 14	N73-26432 *	US-PATENT-CLASS-343-18D	c 43	N80-18498 *
US-PATENT-CLASS-340-403	c 10	N71-27272 *	US-PATENT-CLASS-343-100ME	c 46	N80-14603 *	US-PATENT-CLASS-343-18	c 31	N70-37981 *
US-PATENT-CLASS-340-407	c 71	N74-21014 *	US-PATENT-CLASS-343-100ME	c 35	N80-18359 *	US-PATENT-CLASS-343-18	c 07	N70-40063 *
US-PATENT-CLASS-340-407	c 82	N87-29372 *	US-PATENT-CLASS-343-100ME	c 46	N82-12685 *	US-PATENT-CLASS-343-18	c 30	N70-40309 *
US-PATENT-CLASS-340-412	c 10	N71-24798 *	US-PATENT-CLASS-343-100ME	c 06	N83-10040 *	US-PATENT-CLASS-343-18	c 07	N70-41678 *
US-PATENT-CLASS-340-415	c 10	N73-32144 *	US-PATENT-CLASS-343-100PE	c 32	N75-24982 *	US-PATENT-CLASS-343-200	c 07	N73-16121 *
US-PATENT-CLASS-340-418	c 14	N73-16484 *	US-PATENT-CLASS-343-100PE	c 33	N81-26358 *	US-PATENT-CLASS-343-204	c 07	N73-26118 *
US-PATENT-CLASS-340-5C	c 14	N73-27379 *	US-PATENT-CLASS-343-100PE	c 46	N82-12685 *	US-PATENT-CLASS-343-225	c 17	N78-17140 *
US-PATENT-CLASS-340-5H	c 32	N77-21267 *	US-PATENT-CLASS-343-100PE	c 35	N82-15381 *	US-PATENT-CLASS-343-352	c 43	N85-21723 *
US-PATENT-CLASS-340-5R	c 35	N74-16135 *	US-PATENT-CLASS-343-100R	c 10	N73-16206 *	US-PATENT-CLASS-343-352	c 46	N85-21846 *
US-PATENT-CLASS-340-507	c 63	N94-29466 *	US-PATENT-CLASS-343-100R	c 33	N80-18287 *	US-PATENT-CLASS-343-356	c 04	N84-22546 *
US-PATENT-CLASS-340-518	c 35	N83-34272 *	US-PATENT-CLASS-343-100SA	c 10	N73-16206 *	US-PATENT-CLASS-343-357	c 04	N84-22546 *
US-PATENT-CLASS-340-555	c 74	N85-22139 *	US-PATENT-CLASS-343-100SA	c 33	N74-20860 *	US-PATENT-CLASS-343-357	c 04	N86-27270 *
US-PATENT-CLASS-340-562	c 63	N93-14701 *	US-PATENT-CLASS-343-100SA	c 17	N76-21250 *	US-PATENT-CLASS-343-376	c 33	N85-21493 *
US-PATENT-CLASS-340-566	c 35	N83-34272 *	US-PATENT-CLASS-343-100SA	c 32	N80-28578 *	US-PATENT-CLASS-343-418	c 04	N86-27270 *
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US-PATENT-CLASS-340-580	c 35	N88-29149 *	US-PATENT-CLASS-343-100ST	c 33	N74-20860 *	US-PATENT-CLASS-343-5-CD	c 43	N86-19711 *
US-PATENT-CLASS-340-601	c 47	N93-10108 *	US-PATENT-CLASS-343-100ST	c 32	N75-15854 *	US-PATENT-CLASS-343-5-CM	c 32	N84-34651 *
US-PATENT-CLASS-340-602	c 33	N80-23559 *	US-PATENT-CLASS-343-100ST	c 17	N76-21250 *	US-PATENT-CLASS-343-5-CM	c 32	N85-34327 *
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US-PATENT-CLASS-340-611	c 35	N93-29503 *	US-PATENT-CLASS-343-100TD	c 32	N79-24210 *	US-PATENT-CLASS-343-5-FT	c 32	N84-34651 *
US-PATENT-CLASS-340-650	c 33	N79-18193 *	US-PATENT-CLASS-343-100TD	c 32	N81-14185 *	US-PATENT-CLASS-343-5-VQ	c 43	N86-19711 *
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US-PATENT-CLASS-340-683	c 37	N91-14607 *	US-PATENT-CLASS-343-100	c 07	N71-19854 *	US-PATENT-CLASS-343-5CM	c 07	N72-21118 *
US-PATENT-CLASS-340-683	c 35	N94-35235 *	US-PATENT-CLASS-343-100	c 30	N71-23723 *	US-PATENT-CLASS-343-5CM	c 32	N77-21267 *
US-PATENT-CLASS-340-692	c 76	N90-24168 *	US-PATENT-CLASS-343-100	c 07	N71-24621 *	US-PATENT-CLASS-343-5CM	c 32	N77-32342 *
US-PATENT-CLASS-340-705	c 06	N84-27733 *	US-PATENT-CLASS-343-100	c 09	N71-24804 *	US-PATENT-CLASS-343-5CM	c 35	N79-10391 *
US-PATENT-CLASS-340-8LF	c 71	N79-27353 *	US-PATENT-CLASS-343-100	c 31	N71-24813 *	US-PATENT-CLASS-343-5CM	c 32	N79-14268 *
US-PATENT-CLASS-340-8R	c 35	N74-16135 *	US-PATENT-CLASS-343-100	c 07	N71-27056 *	US-PATENT-CLASS-343-5CM	c 43	N80-18498 *
US-PATENT-CLASS-340-825.21	c 60	N84-28492 *	US-PATENT-CLASS-343-100	c 07	N71-28900 *	US-PATENT-CLASS-343-5CM	c 32	N82-12297 *
US-PATENT-CLASS-340-825.5	c 60	N84-28492 *	US-PATENT-CLASS-343-105R	c 32	N75-26194 *	US-PATENT-CLASS-343-5CM	c 32	N83-18975 *
US-PATENT-CLASS-340-825.5	c 17	N87-16863 *	US-PATENT-CLASS-343-105R	c 04	N84-27713 *	US-PATENT-CLASS-343-5CM	c 32	N83-19968 *
US-PATENT-CLASS-340-825.5	c 62	N91-14772 *	US-PATENT-CLASS-343-108R	c 04	N74-13420 *	US-PATENT-CLASS-343-5CM	c 32	N83-31918 *
US-PATENT-CLASS-340-825.69	c 35	N90-23707 *	US-PATENT-CLASS-343-11R	c 32	N77-32342 *	US-PATENT-CLASS-343-5DP	c 07	N72-11149 *
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US-PATENT-CLASS-340-870.13	c 35	N84-22934 *	US-PATENT-CLASS-343-11VB	c 09	N73-12211 *	US-PATENT-CLASS-343-5DP	c 32	N77-32342 *
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US-PATENT-CLASS-357-63	c 44	N81-19558 *	US-PATENT-CLASS-358-92	c 32	N89-28676 *	US-PATENT-CLASS-363-134	c 33	N79-24257 *
US-PATENT-CLASS-357-63	c 44	N82-26777 *	US-PATENT-CLASS-358-92	c 74	N92-16809 *	US-PATENT-CLASS-363-147	c 44	N81-12542 *
US-PATENT-CLASS-357-65	c 44	N78-25527 *	US-PATENT-CLASS-358-93	c 35	N90-22770 *	US-PATENT-CLASS-363-16	c 33	N78-32341 *
US-PATENT-CLASS-357-65	c 44	N79-11467 *	US-PATENT-CLASS-358-96	c 52	N79-10724 *	US-PATENT-CLASS-363-17	c 33	N82-18494 *
US-PATENT-CLASS-357-65	c 44	N79-31752 *	US-PATENT-CLASS-359-849	c 74	N92-29122 *	US-PATENT-CLASS-363-19	c 33	N85-29147 *
US-PATENT-CLASS-357-65	c 33	N88-14271 *	US-PATENT-CLASS-359-107	c 60	N92-33057 *	US-PATENT-CLASS-363-21	c 33	N81-19392 *
US-PATENT-CLASS-357-67S	c 33	N91-21434 *	US-PATENT-CLASS-359-108	c 60	N92-33057 *	US-PATENT-CLASS-363-21	c 33	N81-19393 *
US-PATENT-CLASS-357-67	c 44	N78-25527 *	US-PATENT-CLASS-359-11	c 74	N92-16808 *	US-PATENT-CLASS-363-22	c 33	N84-33663 *
US-PATENT-CLASS-357-67	c 44	N79-11467 *	US-PATENT-CLASS-359-154	c 74	N94-23270 *	US-PATENT-CLASS-363-23	c 33	N85-29147 *
US-PATENT-CLASS-357-67	c 44	N79-31752 *	US-PATENT-CLASS-359-158	c 74	N94-23270 *	US-PATENT-CLASS-363-24	c 33	N81-33404 *
US-PATENT-CLASS-357-68	c 33	N90-20282 *	US-PATENT-CLASS-359-161	c 36	N93-18287 *	US-PATENT-CLASS-363-25	c 33	N84-16453 *
US-PATENT-CLASS-357-68	c 33	N92-16197 *	US-PATENT-CLASS-359-173	c 74	N94-23270 *	US-PATENT-CLASS-363-27	c 44	N81-12542 *
US-PATENT-CLASS-357-69	c 33	N92-16197 *	US-PATENT-CLASS-359-17	c 74	N94-20591 *	US-PATENT-CLASS-363-36	c 33	N81-19393 *
US-PATENT-CLASS-357-71S	c 33	N91-21434 *	US-PATENT-CLASS-359-183	c 74	N94-23270 *	US-PATENT-CLASS-363-40	c 33	N81-19393 *
US-PATENT-CLASS-357-72	c 33	N88-23941 *	US-PATENT-CLASS-359-189	c 74	N94-23270 *	US-PATENT-CLASS-363-47	c 33	N81-19393 *
US-PATENT-CLASS-357-73	c 33	N78-13320 *	US-PATENT-CLASS-359-18	c 74	N94-20591 *	US-PATENT-CLASS-363-49	c 33	N84-33663 *
US-PATENT-CLASS-357-74	c 37	N79-28549 *	US-PATENT-CLASS-359-230	c 37	N92-29151 *	US-PATENT-CLASS-363-53	c 33	N77-30365 *
US-PATENT-CLASS-357-74	c 33	N88-23941 *	US-PATENT-CLASS-359-236	c 37	N92-29151 *	US-PATENT-CLASS-363-54	c 33	N83-34190 *
US-PATENT-CLASS-357-76	c 33	N90-20282 *	US-PATENT-CLASS-359-240	c 74	N92-16808 *	US-PATENT-CLASS-363-56	c 33	N79-24254 *
US-PATENT-CLASS-357-79	c 37	N79-28549 *	US-PATENT-CLASS-359-241	c 74	N92-16808 *	US-PATENT-CLASS-363-56	c 33	N81-14220 *
US-PATENT-CLASS-357-7	c 33	N75-31331 *	US-PATENT-CLASS-359-241	c 74	N92-33028 *	US-PATENT-CLASS-363-56	c 33	N81-33404 *
US-PATENT-CLASS-357-81	c 37	N79-28549 *	US-PATENT-CLASS-359-246	c 74	N92-29117 *	US-PATENT-CLASS-363-57	c 33	N78-10377 *
US-PATENT-CLASS-357-81	c 33	N88-23941 *	US-PATENT-CLASS-359-247	c 74	N92-29117 *	US-PATENT-CLASS-363-60	c 33	N78-32341 *
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US-PATENT-CLASS-357-82	c 76	N91-28014 *	US-PATENT-CLASS-359-359	c 74	N94-10657 *	US-PATENT-CLASS-363-61	c 33	N82-18494 *
US-PATENT-CLASS-357-83	c 37	N79-28549 *	US-PATENT-CLASS-359-360	c 74	N94-10657 *	US-PATENT-CLASS-363-61	c 33	N85-29147 *
US-PATENT-CLASS-357-90	c 35	N90-21358 *	US-PATENT-CLASS-359-362	c 74	N92-16810 *	US-PATENT-CLASS-363-65	c 33	N84-16453 *
US-PATENT-CLASS-357-91	c 76	N75-25730 *	US-PATENT-CLASS-359-362	c 74	N94-23309 *	US-PATENT-CLASS-363-67	c 33	N84-16453 *
US-PATENT-CLASS-357-91	c 33	N78-27326 *	US-PATENT-CLASS-359-498	c 36	N92-16290 *	US-PATENT-CLASS-363-70	c 33	N77-30365 *
US-PATENT-CLASS-357-91	c 44	N80-29835 *	US-PATENT-CLASS-359-557	c 74	N92-16811 *	US-PATENT-CLASS-363-71	c 33	N79-24254 *
US-PATENT-CLASS-357-91	c 33	N81-26360 *	US-PATENT-CLASS-359-559	c 74	N92-33022 *	US-PATENT-CLASS-363-71	c 33	N79-24257 *
US-PATENT-CLASS-357-91	c 44	N86-32875 *	US-PATENT-CLASS-359-559	c 60	N92-33057 *	US-PATENT-CLASS-363-71	c 33	N81-14220 *
US-PATENT-CLASS-358-101	c 37	N86-21850 *	US-PATENT-CLASS-359-561	c 74	N92-33022 *	US-PATENT-CLASS-363-71	c 33	N84-16453 *
US-PATENT-CLASS-358-101	c 32	N93-18284 *	US-PATENT-CLASS-359-561	c 60	N92-33057 *	US-PATENT-CLASS-363-71	c 33	N85-29147 *
US-PATENT-CLASS-358-103	c 18	N92-28750 *	US-PATENT-CLASS-359-561	c 74	N94-20303 *	US-PATENT-CLASS-363-78	c 33	N81-14220 *
US-PATENT-CLASS-358-103	c 32	N93-18284 *	US-PATENT-CLASS-359-572	c 74	N92-16810 *	US-PATENT-CLASS-363-87	c 33	N83-10345 *
US-PATENT-CLASS-358-104	c 09	N78-18083 *	US-PATENT-CLASS-359-582	c 74	N94-10657 *	US-PATENT-CLASS-363-89	c 33	N78-10377 *
US-PATENT-CLASS-358-104	c 74	N79-13855 *	US-PATENT-CLASS-359-585	c 74	N94-10657 *	US-PATENT-CLASS-363-95	c 33	N79-24257 *
US-PATENT-CLASS-358-104	c 36	N83-34304 *	US-PATENT-CLASS-359-67	c 39	N93-29613 *	US-PATENT-CLASS-363-97	c 33	N79-24254 *
US-PATENT-CLASS-358-105	c 39	N83-20280 *	US-PATENT-CLASS-359-67	c 39	N94-23308 *	US-PATENT-CLASS-363-97	c 09	N88-28939 *
US-PATENT-CLASS-358-105	c 74	N86-21348 *	US-PATENT-CLASS-359-744	c 74	N92-16810 *	US-PATENT-CLASS-364-DIG.1	c 61	N93-18855 *
US-PATENT-CLASS-358-105	c 17	N87-25348 *	US-PATENT-CLASS-359-74	c 39	N93-29613 *	US-PATENT-CLASS-364-DIG.1	c 60	N93-29608 *
US-PATENT-CLASS-358-105	c 54	N92-29129 *	US-PATENT-CLASS-359-7	c 74	N92-33022 *	US-PATENT-CLASS-364-106	c 07	N81-19115 *
US-PATENT-CLASS-358-106	c 39	N78-16387 *	US-PATENT-CLASS-359-813	c 74	N92-16811 *	US-PATENT-CLASS-364-120	c 52	N79-12694 *
US-PATENT-CLASS-358-107	c 35	N79-18296 *	US-PATENT-CLASS-359-819	c 74	N92-16811 *	US-PATENT-CLASS-364-131	c 60	N89-26400 *

US-PATENT-CLASS-364-148

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US-PATENT-CLASS-364-191 c 63 N92-33019 *
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US-PATENT-CLASS-364-200 c 60 N81-27814 *
US-PATENT-CLASS-364-200 c 60 N83-25378 *
US-PATENT-CLASS-364-200 c 60 N83-32342 *
US-PATENT-CLASS-364-200 c 32 N85-21428 *
US-PATENT-CLASS-364-200 c 60 N85-21992 *
US-PATENT-CLASS-364-200 c 60 N88-29310 *
US-PATENT-CLASS-364-200 c 62 N91-25693 *
US-PATENT-CLASS-364-228.3 c 62 N91-14769 *
US-PATENT-CLASS-364-229.4 c 60 N90-21527 *
US-PATENT-CLASS-364-229 c 61 N93-18855 *
US-PATENT-CLASS-364-231.9 c 62 N91-14769 *
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US-PATENT-CLASS-364-415 c 52 N79-12694 *
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US-PATENT-CLASS-437-133	c 76	N92-22035 *	US-PATENT-CLASS-47-1.4	c 31	N73-32750 *	US-PATENT-CLASS-502-344	c 25	N90-20180 *
US-PATENT-CLASS-437-187	c 76	N91-28014 *	US-PATENT-CLASS-47-1.4	c 54	N91-31803 *	US-PATENT-CLASS-502-344	c 25	N91-21270 *
US-PATENT-CLASS-437-195	c 33	N94-10656 *	US-PATENT-CLASS-47-17	c 31	N73-32750 *	US-PATENT-CLASS-502-352	c 25	N90-20154 *
US-PATENT-CLASS-437-197	c 76	N91-28014 *	US-PATENT-CLASS-47-26	c 37	N83-26078 *	US-PATENT-CLASS-502-38	c 25	N90-20154 *
US-PATENT-CLASS-437-199	c 76	N91-28014 *	US-PATENT-CLASS-47-39	c 51	N75-25503 *	US-PATENT-CLASS-502-53	c 25	N90-20154 *
US-PATENT-CLASS-437-200	c 24	N92-18561 *	US-PATENT-CLASS-47-58	c 51	N75-25503 *	US-PATENT-CLASS-502-66	c 25	N94-35255 *
US-PATENT-CLASS-437-200	c 76	N94-23972 *	US-PATENT-CLASS-47-58	c 51	N83-17045 *	US-PATENT-CLASS-502-73	c 25	N92-10073 *
US-PATENT-CLASS-437-203	c 33	N94-10656 *	US-PATENT-CLASS-47-58	c 45	N84-12654 *	US-PATENT-CLASS-502-74	c 25	N94-35255 *
US-PATENT-CLASS-437-225	c 72	N91-14813 *	US-PATENT-CLASS-47-62	c 54	N91-31803 *	US-PATENT-CLASS-505-190	c 76	N94-29501 *
US-PATENT-CLASS-437-228	c 72	N91-14813 *	US-PATENT-CLASS-474-205	c 37	N80-32717 *	US-PATENT-CLASS-505-1	c 33	N91-31529 *
US-PATENT-CLASS-437-229	c 25	N91-31258 *	US-PATENT-CLASS-474-220	c 37	N87-17034 *	US-PATENT-CLASS-505-1	c 76	N92-10681 *
US-PATENT-CLASS-437-234	c 33	N94-10656 *	US-PATENT-CLASS-48-DIG.8	c 28	N80-10374 *	US-PATENT-CLASS-505-1	c 14	N92-15081 *
US-PATENT-CLASS-437-235	c 72	N91-14813 *	US-PATENT-CLASS-48-10-3	c 28	N80-10374 *	US-PATENT-CLASS-505-1	c 74	N92-28571 *
US-PATENT-CLASS-437-238	c 72	N91-14813 *	US-PATENT-CLASS-48-102A	c 28	N80-10374 *	US-PATENT-CLASS-505-701	c 33	N91-31529 *
US-PATENT-CLASS-437-239	c 72	N91-14813 *	US-PATENT-CLASS-48-107	c 28	N80-10374 *	US-PATENT-CLASS-505-702	c 33	N91-31529 *
US-PATENT-CLASS-437-247	c 76	N91-28014 *	US-PATENT-CLASS-48-116	c 44	N76-18642 *	US-PATENT-CLASS-505-702	c 76	N94-29501 *
US-PATENT-CLASS-437-248	c 76	N91-28014 *	US-PATENT-CLASS-48-116	c 44	N77-10636 *	US-PATENT-CLASS-505-703	c 33	N91-31529 *
US-PATENT-CLASS-437-2	c 44	N91-27614 *	US-PATENT-CLASS-48-117	c 44	N76-18642 *	US-PATENT-CLASS-505-703	c 74	N92-28571 *
US-PATENT-CLASS-437-3	c 76	N88-14836 *	US-PATENT-CLASS-48-117	c 44	N77-10636 *	US-PATENT-CLASS-505-704	c 33	N91-31529 *
US-PATENT-CLASS-437-3	c 33	N94-10656 *	US-PATENT-CLASS-48-117	c 28	N80-10374 *	US-PATENT-CLASS-505-728	c 76	N92-10681 *
US-PATENT-CLASS-437-40	c 24	N92-18561 *	US-PATENT-CLASS-48-197-R	c 25	N86-25428 *	US-PATENT-CLASS-505-785	c 76	N94-29501 *
US-PATENT-CLASS-437-5	c 33	N94-10656 *	US-PATENT-CLASS-48-197R	c 44	N76-29704 *	US-PATENT-CLASS-505-848	c 74	N92-28571 *
US-PATENT-CLASS-437-5	c 44	N94-35230 *	US-PATENT-CLASS-48-197R	c 44	N77-10636 *	US-PATENT-CLASS-505-862	c 76	N92-22041 *
US-PATENT-CLASS-437-7	c 76	N88-14836 *	US-PATENT-CLASS-48-197R	c 28	N91-14495 *	US-PATENT-CLASS-505-866	c 74	N92-28571 *
US-PATENT-CLASS-437-85	c 76	N92-22035 *	US-PATENT-CLASS-48-203	c 28	N91-14495 *	US-PATENT-CLASS-505-871	c 76	N92-22041 *
US-PATENT-CLASS-437-8	c 76	N88-14836 *	US-PATENT-CLASS-48-212	c 44	N77-10636 *	US-PATENT-CLASS-505-876	c 37	N92-29099 *
US-PATENT-CLASS-437-903	c 76	N90-19884 *	US-PATENT-CLASS-48-215	c 44	N76-29700 *	US-PATENT-CLASS-51-170	c 15	N71-26134 *
US-PATENT-CLASS-437-907	c 24	N92-18561 *	US-PATENT-CLASS-48-61	c 44	N77-10636 *	US-PATENT-CLASS-51-216	c 15	N72-20444 *
US-PATENT-CLASS-437-930	c 72	N91-14813 *	US-PATENT-CLASS-48-61	c 28	N80-10374 *	US-PATENT-CLASS-51-225	c 37	N74-27905 *
US-PATENT-CLASS-437-935	c 24	N92-18561 *	US-PATENT-CLASS-48-63	c 44	N76-18642 *	US-PATENT-CLASS-51-234	c 37	N74-27905 *
US-PATENT-CLASS-437-936	c 72	N91-14813 *	US-PATENT-CLASS-48-75	c 44	N76-18642 *	US-PATENT-CLASS-51-235	c 37	N78-17383 *
US-PATENT-CLASS-437-936	c 76	N92-22035 *	US-PATENT-CLASS-48-77	c 28	N91-14495 *	US-PATENT-CLASS-51-235	c 76	N80-18951 *
US-PATENT-CLASS-437-942	c 24	N92-18561 *	US-PATENT-CLASS-48-89	c 44	N82-16475 *	US-PATENT-CLASS-51-277	c 74	N80-24149 *
US-PATENT-CLASS-437-945	c 76	N92-22035 *	US-PATENT-CLASS-48-95	c 44	N76-18642 *	US-PATENT-CLASS-51-281-R	c 31	N87-25491 *
US-PATENT-CLASS-437-969	c 76	N88-14836 *	US-PATENT-CLASS-48-95	c 44	N76-29700 *	US-PATENT-CLASS-51-283R	c 74	N80-24149 *
US-PATENT-CLASS-437-973	c 24	N92-18561 *	US-PATENT-CLASS-48-99	c 44	N82-16475 *	US-PATENT-CLASS-51-283	c 46	N74-23069 *
US-PATENT-CLASS-439-131	c 37	N93-14712 *	US-PATENT-CLASS-482-54	c 54	N94-20194 *	US-PATENT-CLASS-51-320	c 15	N72-20444 *
US-PATENT-CLASS-439-139	c 37	N93-14712 *	US-PATENT-CLASS-482-68	c 52	N93-14708 *	US-PATENT-CLASS-51-323	c 15	N72-20444 *
US-PATENT-CLASS-439-158	c 37	N94-35375 *	US-PATENT-CLASS-482-69	c 52	N93-14708 *	US-PATENT-CLASS-51-57	c 15	N71-22705 *
US-PATENT-CLASS-439-271	c 33	N88-14270 *	US-PATENT-CLASS-482-8	c 54	N94-20194 *	US-PATENT-CLASS-51-73R	c 37	N85-21650 *
US-PATENT-CLASS-439-310	c 37	N93-14712 *	US-PATENT-CLASS-483-16	c 37	N93-29505 *	US-PATENT-CLASS-51-97R	c 37	N74-27905 *
US-PATENT-CLASS-439-362	c 37	N94-20126 *	US-PATENT-CLASS-483-901	c 37	N93-29505 *	US-PATENT-CLASS-52-DIG.10	c 18	N72-25540 *
US-PATENT-CLASS-439-362	c 37	N94-23078 *	US-PATENT-CLASS-49-DIG.1	c 34	N78-25350 *	US-PATENT-CLASS-52-DIG.10	c 18	N72-25541 *
US-PATENT-CLASS-439-578	c 33	N88-14270 *	US-PATENT-CLASS-49-171	c 31	N81-19343 *	US-PATENT-CLASS-52-108	c 15	N72-18477 *
US-PATENT-CLASS-44-1-SR	c 25	N85-35253 *	US-PATENT-CLASS-49-253	c 18	N90-19278 *	US-PATENT-CLASS-52-108	c 31	N81-27323 *
US-PATENT-CLASS-44-1R	c 44	N78-31527 *	US-PATENT-CLASS-49-479	c 34	N78-25350 *	US-PATENT-CLASS-52-108	c 31	N87-25492 *
US-PATENT-CLASS-44-1R	c 25	N81-33246 *	US-PATENT-CLASS-49-485	c 34	N78-25350 *	US-PATENT-CLASS-52-109	c 31	N73-32749 *
US-PATENT-CLASS-44-1SR	c 25	N82-29371 *	US-PATENT-CLASS-49-68	c 18	N74-22136 *	US-PATENT-CLASS-52-110	c 37	N86-25791 *
US-PATENT-CLASS-44-2	c 44	N78-31527 *	US-PATENT-CLASS-5-345	c 05	N70-32825 *	US-PATENT-CLASS-52-111	c 31	N81-27324 *
US-PATENT-CLASS-44-2	c 25	N81-33246 *	US-PATENT-CLASS-5-459	c 03	N84-33394 *	US-PATENT-CLASS-52-111	c 37	N86-25789 *
US-PATENT-CLASS-44-50	c 27	N81-17261 *	US-PATENT-CLASS-5-69	c 05	N72-11085 *	US-PATENT-CLASS-52-111	c 37	N86-32737 *
US-PATENT-CLASS-44-51	c 25	N79-11152 *	US-PATENT-CLASS-5-81-R	c 85	N87-21755 *	US-PATENT-CLASS-52-117	c 44	N77-32582 *
			US-PATENT-CLASS-5-82	c 05	N71-23159 *	US-PATENT-CLASS-52-126.5	c 31	N87-16918 *

US-PATENT-CLASS-52-127.7	c 37	N85-30335 *	US-PATENT-CLASS-521-32	c 27	N81-14076 *	US-PATENT-CLASS-525-421	c 24	N94-35372 *	#
US-PATENT-CLASS-52-127	c 15	N71-21531 *	US-PATENT-CLASS-521-54	c 27	N92-16123 *	US-PATENT-CLASS-525-422	c 27	N91-31307 *	
US-PATENT-CLASS-52-144	c 71	N91-27913 *	US-PATENT-CLASS-521-55	c 25	N80-23383 *	US-PATENT-CLASS-525-422	c 27	N92-21711 *	
US-PATENT-CLASS-52-169	c 15	N72-25454 *	US-PATENT-CLASS-521-62	c 27	N81-14076 *	US-PATENT-CLASS-525-422	c 27	N92-22044 *	
US-PATENT-CLASS-52-171	c 11	N73-12265 *	US-PATENT-CLASS-521-82	c 27	N90-16949 *	US-PATENT-CLASS-525-422	c 27	N93-11059 *	
US-PATENT-CLASS-52-171	c 44	N85-29750 *	US-PATENT-CLASS-521-84.1	c 27	N92-16123 *	US-PATENT-CLASS-525-423	c 24	N86-19380 *	
US-PATENT-CLASS-52-173R	c 74	N77-31601 *	US-PATENT-CLASS-521-907	c 27	N92-16123 *	US-PATENT-CLASS-525-425	c 33	N88-23941 *	
US-PATENT-CLASS-52-173	c 15	N72-25454 *	US-PATENT-CLASS-521-918	c 25	N80-23383 *	US-PATENT-CLASS-525-426	c 27	N80-26446 *	
US-PATENT-CLASS-52-1	c 15	N72-28496 *	US-PATENT-CLASS-521-97	c 27	N90-16949 *	US-PATENT-CLASS-525-426	c 27	N84-22746 *	
US-PATENT-CLASS-52-232	c 37	N81-14317 *	US-PATENT-CLASS-521-98	c 27	N90-16949 *	US-PATENT-CLASS-525-426	c 27	N87-28657 *	
US-PATENT-CLASS-52-236	c 39	N76-31562 *	US-PATENT-CLASS-522-162	c 27	N90-21198 *	US-PATENT-CLASS-525-426	c 24	N93-13416 *	
US-PATENT-CLASS-52-249	c 33	N71-25351 *	US-PATENT-CLASS-522-165	c 27	N90-21198 *	US-PATENT-CLASS-525-426	c 24	N94-35372 *	#
US-PATENT-CLASS-52-272	c 31	N71-24035 *	US-PATENT-CLASS-523-135	c 27	N85-29044 *	US-PATENT-CLASS-525-432	c 27	N86-19456 *	
US-PATENT-CLASS-52-284	c 32	N73-13921 *	US-PATENT-CLASS-523-205	c 27	N83-19900 *	US-PATENT-CLASS-525-432	c 27	N87-28657 *	
US-PATENT-CLASS-52-2	c 32	N71-21045 *	US-PATENT-CLASS-523-433	c 24	N86-19380 *	US-PATENT-CLASS-525-432	c 24	N91-25200 *	
US-PATENT-CLASS-52-2	c 44	N77-32583 *	US-PATENT-CLASS-523-434	c 27	N86-27451 *	US-PATENT-CLASS-525-432	c 27	N92-21711 *	
US-PATENT-CLASS-52-309.15	c 31	N87-16918 *	US-PATENT-CLASS-523-435	c 24	N84-11213 *	US-PATENT-CLASS-525-432	c 27	N92-29157 *	
US-PATENT-CLASS-52-309.1	c 31	N81-25258 *	US-PATENT-CLASS-523-440	c 27	N83-34043 *	US-PATENT-CLASS-525-432	c 27	N93-11059 *	
US-PATENT-CLASS-52-391	c 31	N87-16918 *	US-PATENT-CLASS-523-443	c 27	N83-34043 *	US-PATENT-CLASS-525-432	c 24	N93-13416 *	
US-PATENT-CLASS-52-3	c 31	N71-16080 *	US-PATENT-CLASS-523-445	c 24	N86-19380 *	US-PATENT-CLASS-525-432	c 27	N94-35233 *	
US-PATENT-CLASS-52-404	c 33	N71-25351 *	US-PATENT-CLASS-523-445	c 27	N86-27451 *	US-PATENT-CLASS-525-432	c 24	N94-35372 *	#
US-PATENT-CLASS-52-404	c 16	N84-22601 *	US-PATENT-CLASS-523-454	c 24	N84-34571 *	US-PATENT-CLASS-525-434	c 27	N92-31792 *	
US-PATENT-CLASS-52-465	c 37	N93-20117 *	US-PATENT-CLASS-523-454	c 27	N85-34282 *	US-PATENT-CLASS-525-436	c 27	N86-19456 *	
US-PATENT-CLASS-52-506	c 16	N84-22601 *	US-PATENT-CLASS-523-456	c 24	N84-11213 *	US-PATENT-CLASS-525-436	c 27	N87-28657 *	
US-PATENT-CLASS-52-506	c 37	N85-30335 *	US-PATENT-CLASS-523-458	c 24	N84-34571 *	US-PATENT-CLASS-525-436	c 27	N91-15402 *	
US-PATENT-CLASS-52-511	c 31	N87-16918 *	US-PATENT-CLASS-523-458	c 27	N85-34282 *	US-PATENT-CLASS-525-436	c 27	N92-31792 *	
US-PATENT-CLASS-52-514	c 18	N94-23824 *	US-PATENT-CLASS-523-461	c 27	N86-27451 *	US-PATENT-CLASS-525-436	c 24	N93-13416 *	
US-PATENT-CLASS-52-51	c 44	N77-31601 *	US-PATENT-CLASS-523-66468	c 24	N86-19380 *	US-PATENT-CLASS-525-436	c 27	N94-35233 *	
US-PATENT-CLASS-52-573	c 15	N72-28496 *	US-PATENT-CLASS-524-104	c 27	N83-28240 *	US-PATENT-CLASS-525-436	c 24	N94-35372 *	#
US-PATENT-CLASS-52-573	c 18	N89-28554 *	US-PATENT-CLASS-524-171	c 27	N84-22747 *	US-PATENT-CLASS-525-471	c 27	N91-31307 *	
US-PATENT-CLASS-52-594	c 15	N72-25454 *	US-PATENT-CLASS-524-173	c 27	N83-28240 *	US-PATENT-CLASS-525-474	c 27	N83-28240 *	
US-PATENT-CLASS-52-594	c 32	N73-13921 *	US-PATENT-CLASS-524-233	c 27	N83-28240 *	US-PATENT-CLASS-525-474	c 27	N85-21349 *	
US-PATENT-CLASS-52-632	c 31	N81-27324 *	US-PATENT-CLASS-524-233	c 27	N90-16950 *	US-PATENT-CLASS-525-47	c 27	N85-29043 *	
US-PATENT-CLASS-52-632	c 31	N86-19479 *	US-PATENT-CLASS-524-366	c 27	N90-16950 *	US-PATENT-CLASS-525-484	c 24	N84-34571 *	
US-PATENT-CLASS-52-632	c 37	N86-32737 *	US-PATENT-CLASS-524-371	c 27	N84-14324 *	US-PATENT-CLASS-525-4	c 25	N80-23383 *	
US-PATENT-CLASS-52-632	c 31	N87-25492 *	US-PATENT-CLASS-524-378	c 27	N90-16950 *	US-PATENT-CLASS-525-527	c 24	N86-19380 *	
US-PATENT-CLASS-52-637	c 39	N76-31562 *	US-PATENT-CLASS-524-388	c 27	N85-29044 *	US-PATENT-CLASS-525-532	c 23	N85-28973 *	
US-PATENT-CLASS-52-637	c 31	N86-19479 *	US-PATENT-CLASS-524-404	c 27	N87-22845 *	US-PATENT-CLASS-525-534	c 27	N84-22747 *	
US-PATENT-CLASS-52-645	c 31	N81-25259 *	US-PATENT-CLASS-524-436	c 27	N83-19900 *	US-PATENT-CLASS-525-534	c 23	N85-28973 *	
US-PATENT-CLASS-52-645	c 37	N86-25789 *	US-PATENT-CLASS-524-437	c 27	N83-19900 *	US-PATENT-CLASS-525-534	c 27	N86-27450 *	
US-PATENT-CLASS-52-645	c 37	N86-32737 *	US-PATENT-CLASS-524-494	c 27	N84-14322 *	US-PATENT-CLASS-525-535	c 27	N84-22747 *	
US-PATENT-CLASS-52-646	c 31	N73-32749 *	US-PATENT-CLASS-524-495	c 27	N92-21711 *	US-PATENT-CLASS-525-535	c 27	N86-27450 *	
US-PATENT-CLASS-52-646	c 31	N86-19479 *	US-PATENT-CLASS-524-496	c 27	N84-14322 *	US-PATENT-CLASS-525-536	c 27	N84-22747 *	
US-PATENT-CLASS-52-646	c 37	N86-32737 *	US-PATENT-CLASS-524-500	c 27	N84-14322 *	US-PATENT-CLASS-525-56	c 23	N81-29160 *	
US-PATENT-CLASS-52-646	c 31	N87-25492 *	US-PATENT-CLASS-524-503	c 27	N83-19900 *	US-PATENT-CLASS-525-61	c 27	N81-24257 *	
US-PATENT-CLASS-52-646	c 18	N88-28958 *	US-PATENT-CLASS-524-530	c 27	N84-14322 *	US-PATENT-CLASS-525-61	c 23	N81-29160 *	
US-PATENT-CLASS-52-646	c 37	N88-29180 *	US-PATENT-CLASS-524-538	c 27	N94-23076 *	US-PATENT-CLASS-525-61	c 25	N83-13188 *	
US-PATENT-CLASS-52-646	c 18	N91-21221 *	US-PATENT-CLASS-524-548	c 27	N86-20560 *	US-PATENT-CLASS-525-903	c 27	N87-28657 *	
US-PATENT-CLASS-52-646	c 18	N91-27199 *	US-PATENT-CLASS-524-548	c 27	N87-22845 *	US-PATENT-CLASS-525-903	c 27	N92-21711 *	
US-PATENT-CLASS-52-648	c 11	N72-25287 *	US-PATENT-CLASS-524-564	c 27	N83-19900 *	US-PATENT-CLASS-525-903	c 27	N93-11059 *	
US-PATENT-CLASS-52-648	c 39	N76-31562 *	US-PATENT-CLASS-524-567	c 27	N85-29044 *	US-PATENT-CLASS-525-903	c 24	N93-13416 *	
US-PATENT-CLASS-52-648	c 31	N81-25258 *	US-PATENT-CLASS-524-600	c 27	N90-16950 *	US-PATENT-CLASS-525-903	c 27	N94-35233 *	
US-PATENT-CLASS-52-648	c 31	N86-19479 *	US-PATENT-CLASS-524-600	c 27	N91-15402 *	US-PATENT-CLASS-525-903	c 24	N94-35372 *	#
US-PATENT-CLASS-52-648	c 37	N86-25789 *	US-PATENT-CLASS-524-607	c 27	N90-16950 *	US-PATENT-CLASS-525-905	c 27	N88-18725 *	
US-PATENT-CLASS-52-648	c 18	N88-28958 *	US-PATENT-CLASS-524-608	c 27	N94-23076 *	US-PATENT-CLASS-526-13	c 27	N78-32256 *	
US-PATENT-CLASS-52-648	c 37	N88-29180 *	US-PATENT-CLASS-524-726	c 27	N83-28240 *	US-PATENT-CLASS-526-193	c 27	N78-15276 *	
US-PATENT-CLASS-52-648	c 18	N89-28554 *	US-PATENT-CLASS-524-786	c 27	N83-19900 *	US-PATENT-CLASS-526-1	c 27	N76-24405 *	
US-PATENT-CLASS-52-64	c 31	N73-32749 *	US-PATENT-CLASS-525-107	c 27	N85-34281 *	US-PATENT-CLASS-526-201	c 25	N81-19242 *	
US-PATENT-CLASS-52-651	c 39	N76-31562 *	US-PATENT-CLASS-525-108	c 27	N86-27451 *	US-PATENT-CLASS-526-204	c 25	N85-30039 *	
US-PATENT-CLASS-52-655	c 11	N72-25287 *	US-PATENT-CLASS-525-113	c 27	N85-34281 *	US-PATENT-CLASS-526-217	c 27	N85-21350 *	
US-PATENT-CLASS-52-705	c 37	N76-19437 *	US-PATENT-CLASS-525-115	c 27	N86-27451 *	US-PATENT-CLASS-526-217	c 25	N85-30039 *	
US-PATENT-CLASS-52-71	c 18	N75-27040 *	US-PATENT-CLASS-525-119	c 27	N85-34281 *	US-PATENT-CLASS-526-225	c 27	N78-15276 *	
US-PATENT-CLASS-52-726	c 39	N76-31562 *	US-PATENT-CLASS-525-119	c 27	N86-27451 *	US-PATENT-CLASS-526-23	c 27	N78-32256 *	
US-PATENT-CLASS-52-726	c 31	N81-25258 *	US-PATENT-CLASS-525-122	c 27	N86-27451 *	US-PATENT-CLASS-526-248	c 27	N92-22044 *	
US-PATENT-CLASS-52-743	c 37	N81-14317 *	US-PATENT-CLASS-525-181	c 27	N83-28240 *	US-PATENT-CLASS-526-249	c 27	N92-22044 *	
US-PATENT-CLASS-52-745	c 39	N76-31562 *	US-PATENT-CLASS-525-181	c 27	N85-21349 *	US-PATENT-CLASS-526-255	c 27	N76-24405 *	
US-PATENT-CLASS-52-745	c 31	N81-27323 *	US-PATENT-CLASS-525-182	c 27	N85-21349 *	US-PATENT-CLASS-526-258	c 27	N92-16121 *	
US-PATENT-CLASS-52-745	c 37	N85-30335 *	US-PATENT-CLASS-525-182	c 27	N87-22845 *	US-PATENT-CLASS-526-259	c 27	N83-34040 *	
US-PATENT-CLASS-52-749	c 39	N76-31562 *	US-PATENT-CLASS-525-183	c 27	N83-28240 *	US-PATENT-CLASS-526-261	c 27	N80-24438 *	
US-PATENT-CLASS-52-758F	c 37	N76-19437 *	US-PATENT-CLASS-525-183	c 27	N85-21349 *	US-PATENT-CLASS-526-262	c 27	N81-27272 *	
US-PATENT-CLASS-52-806	c 24	N84-11214 *	US-PATENT-CLASS-525-184	c 27	N83-28240 *	US-PATENT-CLASS-526-262	c 27	N84-22745 *	
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US-PATENT-CLASS-73-71.6	c 35	N77-18417 *	US-PATENT-CLASS-73-863.11	c 37	N85-29286 *	US-PATENT-CLASS-74-458	c 35	N87-21304 *
US-PATENT-CLASS-73-714	c 35	N78-14347 *	US-PATENT-CLASS-73-863.21	c 35	N86-26595 *	US-PATENT-CLASS-74-468	c 15	N71-24984 *
US-PATENT-CLASS-73-714	c 34	N79-24285 *	US-PATENT-CLASS-73-863.22	c 51	N91-31755 *	US-PATENT-CLASS-74-468	c 35	N87-21304 *
US-PATENT-CLASS-73-714	c 35	N84-14491 *	US-PATENT-CLASS-73-863.23	c 34	N92-16241 *	US-PATENT-CLASS-74-469	c 15	N72-21463 *
US-PATENT-CLASS-73-715	c 35	N94-35369 *	US-PATENT-CLASS-73-863.31	c 45	N83-25217 *	US-PATENT-CLASS-74-469	c 15	N72-28495 *
US-PATENT-CLASS-73-721	c 35	N79-14347 *	US-PATENT-CLASS-73-863.31	c 35	N86-26595 *	US-PATENT-CLASS-74-469	c 37	N94-29556 *
US-PATENT-CLASS-73-721	c 35	N84-22934 *	US-PATENT-CLASS-73-863.41	c 51	N91-31755 *	US-PATENT-CLASS-74-471XY	c 54	N75-27760 *
US-PATENT-CLASS-73-721	c 35	N92-29097 *	US-PATENT-CLASS-73-863.72	c 35	N86-26595 *	US-PATENT-CLASS-74-471XY	c 33	N92-29153 *
US-PATENT-CLASS-73-724	c 32	N79-24203 *	US-PATENT-CLASS-73-863.83	c 45	N83-25217 *	US-PATENT-CLASS-74-471	c 05	N70-41581 *
US-PATENT-CLASS-73-724	c 52	N80-18691 *	US-PATENT-CLASS-73-863.85	c 51	N91-31755 *	US-PATENT-CLASS-74-471	c 03	N70-42073 *
US-PATENT-CLASS-73-724	c 33	N82-26572 *	US-PATENT-CLASS-73-863.86	c 35	N85-29213 *	US-PATENT-CLASS-74-471	c 15	N71-20740 *
US-PATENT-CLASS-73-727	c 35	N92-29097 *	US-PATENT-CLASS-73-863.86	c 51	N91-31755 *	US-PATENT-CLASS-74-479B	c 27	N94-20359 *
US-PATENT-CLASS-73-753	c 35	N85-21597 *	US-PATENT-CLASS-73-864.34	c 35	N86-26595 *	US-PATENT-CLASS-74-479B	c 37	N94-29556 *
US-PATENT-CLASS-73-756	c 35	N78-24515 *	US-PATENT-CLASS-73-864.41	c 35	N84-28018 *	US-PATENT-CLASS-74-479B	c 35	N94-29726 *
US-PATENT-CLASS-73-756	c 35	N79-14347 *	US-PATENT-CLASS-73-864.52	c 35	N85-29213 *	US-PATENT-CLASS-74-479FP	c 35	N94-29726 *
US-PATENT-CLASS-73-756	c 35	N84-22934 *	US-PATENT-CLASS-73-864.63	c 45	N83-25217 *	US-PATENT-CLASS-74-479FP	c 37	N94-29556 *
US-PATENT-CLASS-73-756	c 35	N87-28884 *	US-PATENT-CLASS-73-864.81	c 37	N85-29286 *	US-PATENT-CLASS-74-479	c 08	N82-24205 *
US-PATENT-CLASS-73-756	c 35	N92-29097 *	US-PATENT-CLASS-73-865.6	c 09	N91-21157 *	US-PATENT-CLASS-74-479	c 37	N91-14616 *
US-PATENT-CLASS-73-756	c 35	N94-35369 *	US-PATENT-CLASS-73-865.6	c 14	N91-21176 *	US-PATENT-CLASS-74-479	c 37	N92-33634 *
US-PATENT-CLASS-73-75	c 35	N85-34373 *	US-PATENT-CLASS-73-865.6	c 14	N93-24598 *	US-PATENT-CLASS-74-480R	c 05	N75-12930 *
US-PATENT-CLASS-73-761	c 33	N83-16626 *	US-PATENT-CLASS-73-865.9	c 09	N94-10669 *	US-PATENT-CLASS-74-480R	c 08	N82-24205 *
US-PATENT-CLASS-73-761	c 39	N92-34174 *	US-PATENT-CLASS-73-866.4	c 14	N91-21176 *	US-PATENT-CLASS-74-5.12	c 31	N71-26537 *
US-PATENT-CLASS-73-761	c 39	N94-10671 *	US-PATENT-CLASS-73-866.4	c 14	N93-24598 *	US-PATENT-CLASS-74-5.22	c 21	N73-13644 *
US-PATENT-CLASS-73-761	c 35	N84-29538 *	US-PATENT-CLASS-73-86	c 14	N89-39975 *	US-PATENT-CLASS-74-5.34	c 04	N76-26175 *
US-PATENT-CLASS-73-76	c 06	N72-17095 *	US-PATENT-CLASS-73-86	c 33	N71-21586 *	US-PATENT-CLASS-74-5.34	c 06	N83-33882 *
US-PATENT-CLASS-73-770	c 39	N79-22537 *	US-PATENT-CLASS-73-86	c 33	N73-27796 *	US-PATENT-CLASS-74-5.47	c 21	N71-23289 *
US-PATENT-CLASS-73-779	c 39	N93-20118 *	US-PATENT-CLASS-73-86	c 34	N74-15652 *	US-PATENT-CLASS-74-5.5	c 35	N74-28097 *
US-PATENT-CLASS-73-781	c 52	N80-27072 *	US-PATENT-CLASS-73-86	c 20	N93-18856 *	US-PATENT-CLASS-74-5.5	c 37	N84-28082 *
US-PATENT-CLASS-73-788	c 39	N93-26102 *	US-PATENT-CLASS-73-88.5R	c 15	N72-17452 *	US-PATENT-CLASS-74-5.6D	c 33	N85-29142 *
US-PATENT-CLASS-73-789	c 35	N94-29538 *	US-PATENT-CLASS-73-88.5R	c 32	N73-26910 *	US-PATENT-CLASS-74-5.6	c 35	N74-15094 *
US-PATENT-CLASS-73-794	c 35	N88-23967 *	US-PATENT-CLASS-73-88.5R	c 52	N74-27864 *	US-PATENT-CLASS-74-5.7	c 35	N74-18323 *
US-PATENT-CLASS-73-794	c 24	N91-14430 *	US-PATENT-CLASS-73-88.5R	c 35	N76-14430 *	US-PATENT-CLASS-74-5.7	c 15	N76-14158 *
US-PATENT-CLASS-73-797	c 39	N93-20118 *	US-PATENT-CLASS-73-88.5SD	c 33	N76-19338 *	US-PATENT-CLASS-74-5F	c 15	N73-12488 *
US-PATENT-CLASS-73-799	c 35	N90-23712 *	US-PATENT-CLASS-73-88.5	c 14	N70-34705 *	US-PATENT-CLASS-74-501R	c 15	N72-22485 *
US-PATENT-CLASS-73-799	c 39	N93-29612 *	US-PATENT-CLASS-73-88.5	c 14	N70-34799 *	US-PATENT-CLASS-74-515E	c 54	N78-17676 *
US-PATENT-CLASS-73-79	c 14	N71-26161 *	US-PATENT-CLASS-73-88.5	c 14	N71-17656 *	US-PATENT-CLASS-74-519	c 03	N70-41954 *
US-PATENT-CLASS-73-7	c 25	N86-19413 *	US-PATENT-CLASS-73-88.5	c 14	N71-21091 *	US-PATENT-CLASS-74-519	c 05	N81-19087 *
US-PATENT-CLASS-73-801	c 35	N88-23966 *	US-PATENT-CLASS-73-88.5	c 14	N71-23087 *	US-PATENT-CLASS-74-572	c 07	N78-33101 *
US-PATENT-CLASS-73-801	c 39	N92-29155 *	US-PATENT-CLASS-73-88.5	c 14	N71-24233 *	US-PATENT-CLASS-74-572	c 37	N79-10422 *
US-PATENT-CLASS-73-801	c 26	N93-14705 *	US-PATENT-CLASS-73-88.5	c 09	N72-22200 *	US-PATENT-CLASS-74-572	c 44	N78-14527 *
US-PATENT-CLASS-73-809	c 39	N87-25601 *	US-PATENT-CLASS-73-88.5	c 33	N75-31329 *	US-PATENT-CLASS-74-572	c 24	N81-29163 *
US-PATENT-CLASS-73-810	c 39	N79-22537 *	US-PATENT-CLASS-73-88.5	c 38	N76-28563 *	US-PATENT-CLASS-74-572	c 35	N89-15379 *
US-PATENT-CLASS-73-810	c 39	N87-25601 *	US-PATENT-CLASS-73-88A	c 32	N73-20740 *	US-PATENT-CLASS-74-573R	c 37	N84-28082 *
US-PATENT-CLASS-73-810	c 35	N88-23967 *	US-PATENT-CLASS-73-88F	c 39	N78-15512 *	US-PATENT-CLASS-74-586	c 37	N79-14382 *
US-PATENT-CLASS-73-818	c 35	N83-21312 *	US-PATENT-CLASS-73-88R	c 35	N74-13129 *	US-PATENT-CLASS-74-58	c 35	N84-22928 *
US-PATENT-CLASS-73-818	c 39	N83-32081 *	US-PATENT-CLASS-73-88R	c 35	N77-22449 *	US-PATENT-CLASS-74-594.6	c 37	N74-18127 *
US-PATENT-CLASS-73-81	c 14	N73-32321 *	US-PATENT-CLASS-73-88R	c 39	N77-28511 *	US-PATENT-CLASS-74-594.7	c 37	N74-18127 *
US-PATENT-CLASS-73-822	c 39	N83-32081 *	US-PATENT-CLASS-73-88	c 32	N71-17645 *	US-PATENT-CLASS-74-61	c 35	N92-33010 *
US-PATENT-CLASS-73-826	c 14	N91-27175 *	US-PATENT-CLASS-73-90	c 32	N70-42003 *	US-PATENT-CLASS-74-63	c 15	N71-17692 *
US-PATENT-CLASS-73-827	c 39	N86-20841 *	US-PATENT-CLASS-73-90	c 32	N71-25360 *	US-PATENT-CLASS-74-661	c 37	N80-32716 *
US-PATENT-CLASS-73-82	c 43	N79-25443 *	US-PATENT-CLASS-73-90	c 14	N73-20476 *	US-PATENT-CLASS-74-665B	c 37	N76-15457 *
US-PATENT-CLASS-73-82	c 43	N80-14423 *	US-PATENT-CLASS-73-91	c 14	N73-20476 *	US-PATENT-CLASS-74-665C	c 37	N80-32716 *
US-PATENT-CLASS-73-82	c 43	N80-23711 *	US-PATENT-CLASS-73-91	c 32	N73-26910 *	US-PATENT-CLASS-74-665G	c 37	N91-14616 *
US-PATENT-CLASS-73-831	c 35	N85-34375 *	US-PATENT-CLASS-73-91	c 09	N74-19528 *	US-PATENT-CLASS-74-674	c 37	N79-20377 *
US-PATENT-CLASS-73-831	c 37	N90-20409 *	US-PATENT-CLASS-73-91	c 39	N78-10493 *	US-PATENT-CLASS-74-675	c 37	N74-27901 *
US-PATENT-CLASS-73-833	c 24	N84-27829 *	US-PATENT-CLASS-73-94	c 14	N73-32323 *	US-PATENT-CLASS-74-705	c 37	N79-20377 *
US-PATENT-CLASS-73-834	c 37	N88-14361 *	US-PATENT-CLASS-73-95	c 15	N71-24834 *	US-PATENT-CLASS-74-710	c 37	N74-27901 *
US-PATENT-CLASS-73-845	c 35	N90-22712 *	US-PATENT-CLASS-73-95	c 14	N72-11364 *	US-PATENT-CLASS-74-753	c 37	N84-28084 *
US-PATENT-CLASS-73-84	c 14	N71-22765 *	US-PATENT-CLASS-73-95	c 35	N76-18400 *	US-PATENT-CLASS-74-758	c 37	N84-28084 *
US-PATENT-CLASS-73-84	c 14	N73-19420 *	US-PATENT-CLASS-73-95	c 35	N77-22450 *	US-PATENT-CLASS-74-764	c 37	N79-20377 *
US-PATENT-CLASS-73-84	c 35	N77-27367 *	US-PATENT-CLASS-73-95	c 31	N79-11246 *	US-PATENT-CLASS-74-800	c 37	N78-17385 *
US-PATENT-CLASS-73-852	c 37	N91-21540 *	US-PATENT-CLASS-73-97	c 14	N71-15600 *	US-PATENT-CLASS-74-812	c 37	N84-28084 *

US-PATENT-CLASS-74-81

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US-PATENT-CLASS-74-820 c 37 N75-13266 *
US-PATENT-CLASS-74-83 c 37 N78-16369 *
US-PATENT-CLASS-74-87 c 35 N92-33010 *
US-PATENT-CLASS-74-89.15 c 15 N71-26635 *
US-PATENT-CLASS-74-89.15 c 15 N72-21462 *
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US-PATENT-CLASS-74-89.15 c 37 N94-23078 *
US-PATENT-CLASS-74-89.15 c 37 N94-29427 *
US-PATENT-CLASS-74-89.18 c 15 N71-23809 *
US-PATENT-CLASS-74-89 c 37 N81-33483 *
US-PATENT-CLASS-74-96 c 37 N77-22482 *
US-PATENT-CLASS-75-58 c 17 N72-22530 *
US-PATENT-CLASS-75-DIG.1 c 18 N72-25539 *
US-PATENT-CLASS-75-DIG.1 c 37 N75-26371 *
US-PATENT-CLASS-75-0.58B c 15 N72-25448 *
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US-PATENT-CLASS-75-126D c 26 N78-18182 *
US-PATENT-CLASS-75-126F c 26 N78-18182 *
US-PATENT-CLASS-75-128G c 26 N78-18182 *
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US-PATENT-CLASS-77.5CH c 27 N81-15104 *
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US-PATENT-CLASS-8-177G c 37 N85-21649 *
US-PATENT-CLASS-8-180B c 37 N79-14383 *
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US-PATENT-CLASS-8-155 c 37 N83-36482 *
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US-PATENT-CLASS-8-2.24R c 14 N72-16283 *
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US-PATENT-CLASS-8-3.203 c 54 N91-26747 *
US-PATENT-CLASS-8-3.206 c 54 N91-26747 *
US-PATENT-CLASS-8-3.282 c 54 N91-26747 *
US-PATENT-CLASS-8-3.451 c 37 N77-14478 *
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US-PATENT-CLASS-8-5.33 c 15 N71-21489 *
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US-PATENT-CLASS-8-5.5B c 15 N72-11385 *
US-PATENT-CLASS-8-5.7 c 15 N71-23254 *
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US-PATENT-4,454,611	c 54	N84-28484	US-PATENT-4,510,277	c 27	N85-34282	US-PATENT-4,552,784	c 26	N86-32550
US-PATENT-4,454,649	c 44	N84-28205	US-PATENT-4,510,296	c 23	N85-28973	US-PATENT-4,552,931	c 27	N86-19456
US-PATENT-4,454,753	c 09	N84-27749	US-PATENT-4,510,476	c 33	N85-29146	US-PATENT-4,553,110	c 33	N86-19515
US-PATENT-4,455,418	c 27	N84-27885	US-PATENT-4,511,362	c 25	N85-35253	US-PATENT-4,553,393	c 37	N86-19604
US-PATENT-4,455,418	c 25	N85-28982	US-PATENT-4,511,838	c 76	N85-30923	US-PATENT-4,553,917	c 26	N86-32551
US-PATENT-4,455,532	c 72	N84-28575	US-PATENT-4,512,332	c 44	N85-30474	US-PATENT-4,554,905	c 18	N86-20469
US-PATENT-4,455,680	c 32	N84-27952	US-PATENT-4,512,661	c 35	N85-30282	US-PATENT-4,556,327	c 35	N86-19580
US-PATENT-4,456,208	c 27	N84-27886	US-PATENT-4,512,678	c 37	N85-30334	US-PATENT-4,556,986	c 74	N86-21348
US-PATENT-4,456,708	c 51	N84-28361	US-PATENT-4,512,699	c 37	N85-29285	US-PATENT-4,557,097	c 31	N86-19479
US-PATENT-4,458,418	c 37	N84-28085	US-PATENT-4,512,846	c 76	N85-29800	US-PATENT-4,557,149	c 35	N86-19581
US-PATENT-4,458,554	c 37	N84-28082	US-PATENT-4,513,317	c 32	N85-29117	US-PATENT-4,557,444	c 05	N86-19310
US-PATENT-4,459,083	c 02	N84-28732	US-PATENT-4,513,423	c 36	N85-30305	US-PATENT-4,558,585	c 71	N86-21276
US-PATENT-4,459,470	c 27	N84-33589	US-PATENT-4,513,750	c 52	N85-30618	US-PATENT-4,558,967	c 37	N86-19605
US-PATENT-4,459,528	c 33	N84-27975	US-PATENT-4,513,810	c 35	N85-29214	US-PATENT-4,560,577	c 27	N86-19458
US-PATENT-4,459,562	c 33	N84-27974	US-PATENT-4,514,137	c 37	N85-29282	US-PATENT-4,560,742	c 27	N86-19457
US-PATENT-4,462,871	c 76	N84-35112	US-PATENT-4,514,143	c 05	N85-29947	US-PATENT-4,561,784	c 25	N86-19413
US-PATENT-4,463,357	c 46	N85-21846	US-PATENT-4,514,178	c 35	N85-29212	US-PATENT-4,562,583	c 74	N86-20124
US-PATENT-4,463,465	c 03	N84-33394	US-PATENT-4,514,557	c 25	N85-28982	US-PATENT-4,564,787	c 33	N86-21742
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US-PATENT-4,464,710	c 33	N84-33663	US-PATENT-4,515,751	c 35	N85-29213	US-PATENT-4,565,886	c 27	N86-21675
US-PATENT-4,466,242	c 20	N85-21256	US-PATENT-4,516,071	c 33	N85-30187	US-PATENT-4,566,447	c 54	N86-22112
US-PATENT-4,466,667	c 35	N84-33768	US-PATENT-4,516,435	c 37	N85-29286	US-PATENT-4,567,301	c 23	N86-21582
US-PATENT-4,469,552	c 76	N84-35113	US-PATENT-4,517,472	c 33	N85-29147	US-PATENT-4,567,348	c 37	N86-21850
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US-PATENT-4,469,998	c 33	N84-33661	US-PATENT-4,517,530	c 33	N85-29143	US-PATENT-4,572,004	c 35	N86-25752
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US-PATENT-4,470,403	c 44	N84-34792	US-PATENT-4,518,625	c 24	N85-30027	US-PATENT-4,573,356	c 71	N88-24241
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US-PATENT-4,472,473	c 18	N84-33450	US-PATENT-4,519,545	c 37	N85-29283	US-PATENT-4,578,920	c 37	N86-25789
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US-PATENT-4,473,259	c 37	N85-20337	US-PATENT-4,521,077	c 74	N85-29750	US-PATENT-4,579,475	c 37	N86-27630
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US-PATENT-4,474,062	c 06	N84-34443	US-PATENT-4,521,702	c 33	N85-29145	US-PATENT-4,582,289	c 37	N87-21333
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US-PATENT-4,474,471	c 35	N84-34705	US-PATENT-4,522,469	c 76	N85-33826	US-PATENT-4,583,587	c 34	N86-27593
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US-PATENT-4,475,063	c 33	N85-21491	US-PATENT-4,522,755	c 27	N86-19455	US-PATENT-4,584,249	c 44	N86-25874
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US-PATENT-4,475,527	c 37	N85-21650	US-PATENT-4,523,008	c 27	N85-29043	US-PATENT-4,584,887	c 35	N86-26595
US-PATENT-4,475,921	c 71	N85-22104	US-PATENT-4,523,682	c 71	N85-30765	US-PATENT-4,585,191	c 20	N86-26368
US-PATENT-4,478,879	c 44	N85-20530	US-PATENT-4,523,741	c 37	N85-29284	US-PATENT-4,585,344	c 35	N86-25753
US-PATENT-4,479,053	c 74	N85-22139	US-PATENT-4,523,810	c 74	N85-29749	US-PATENT-4,586,140	c 06	N86-27280
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US-PATENT-4,481,570	c 60	N85-21992	US-PATENT-4,526,925	c 27	N87-22845	US-PATENT-4,587,312	c 27	N86-27450
US-PATENT-4,482,778	c 44	N85-21768	US-PATENT-4,527,092	c 37	N85-33489	US-PATENT-4,587,324	c 23	N86-32525
US-PATENT-4,482,779	c 33	N85-21492	US-PATENT-4,527,910	c 37	N85-33490	US-PATENT-4,587,526	c 37	N86-25791
US-PATENT-4,483,512	c 37	N85-20338	US-PATENT-4,528,386	c 23	N85-33187	US-PATENT-4,588,778	c 27	N86-27451
US-PATENT-4,483,639	c 37	N85-21649	US-PATENT-4,528,417	c 44	N85-34441	US-PATENT-4,588,986	c 32	N86-27513
US-PATENT-4,483,817	c 25	N85-21279	US-PATENT-4,528,639	c 60	N85-33701	US-PATENT-4,591,772	c 37	N86-27629
US-PATENT-4,485,151	c 24	N85-21266	US-PATENT-4,529,358	c 34	N85-33433	US-PATENT-4,591,838	c 25	N86-27431
US-PATENT-4,485,151	c 24	N85-35233	US-PATENT-4,531,143	c 33	N86-19516	US-PATENT-4,593,415	c 54	N86-28618
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US-PATENT-4,485,671	c 35	N85-20295	US-PATENT-4,533,101	c 07	N85-35194	US-PATENT-4,594,720	c 36	N86-29204
US-PATENT-4,485,992	c 08	N85-19985	US-PATENT-4,533,242	c 74	N85-34629	US-PATENT-4,594,734	c 54	N86-28620
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US-PATENT-4,488,335	c 27	N85-20125	US-PATENT-4,535,033	c 24	N85-35233	US-PATENT-4,595,548	c 27	N86-29039
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US-PATENT-4,489,027	c 27	N85-20124	US-PATENT-4,535,636	c 35	N85-34375	US-PATENT-4,598,007	c 24	N86-28131
US-PATENT-4,489,239	c 36	N85-21631	US-PATENT-4,536,114	c 37	N85-34401	US-PATENT-4,598,427	c 54	N86-28619
US-PATENT-4,489,243	c 44	N85-21769	US-PATENT-4,536,565	c 27	N85-34280	US-PATENT-4,598,428	c 54	N86-29507
US-PATENT-4,489,264	c 33	N85-22877	US-PATENT-4,537,554	c 85	N85-34722	US-PATENT-4,598,981	c 74	N86-28732
US-PATENT-4,490,117	c 09	N85-19990	US-PATENT-4,537,834	c 27	N85-34281	US-PATENT-4,599,001	c 74	N86-29650
US-PATENT-4,490,229	c 31	N85-20153	US-PATENT-4,538,066	c 35	N85-34374	US-PATENT-4,600,299	c 74	N86-32266
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US-PATENT-4,493,021	c 32	N85-21428	US-PATENT-4,538,778	c 08	N85-35200	US-PATENT-4,600,769	c 27	N86-31726
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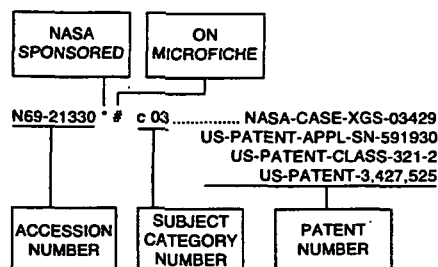
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N73-13187*	c 08	US-PATENT-CLASS-340-146.1	N73-13489*	c 16	NASA-CASE-HQN-10654-1	N73-14584*	c 18	US-PATENT-CLASS-29-591
		US-PATENT-3,701,894			US-PATENT-APPL-SN-182978			US-PATENT-CLASS-317-234A
		NASA-CASE-GSC-10975-1			US-PATENT-CLASS-324-5R			US-PATENT-CLASS-317-234G
		US-PATENT-APPL-SN-100996			US-PATENT-CLASS-331-94			US-PATENT-3,705,255
N73-13208*	c 09	US-PATENT-CLASS-340-172.5	N73-13562*	c 18	US-PATENT-3,702,972	N73-14692*	c 21	NASA-CASE-LAR-10894-1
		US-PATENT-3,702,463			NASA-CASE-ARC-10196-1			US-PATENT-APPL-SN-189375
		NASA-CASE-LEW-11192-1			US-PATENT-APPL-SN-115082			US-PATENT-CLASS-106-39R
		US-PATENT-APPL-SN-198285			US-PATENT-CLASS-260-2.5F			US-PATENT-CLASS-106-55
N73-13209*	c 09	US-PATENT-CLASS-315-3.5	N73-13643*	c 21	US-PATENT-3,702,841	N73-14853*	c 31	US-PATENT-CLASS-106-58
		US-PATENT-CLASS-315-5.38			NASA-CASE-HQN-10703			US-PATENT-CLASS-106-63
		US-PATENT-3,702,951			US-PATENT-APPL-SN-156724			US-PATENT-CLASS-264-DIG.36
		NASA-CASE-XLA-05099			US-PATENT-CLASS-340-27NA			US-PATENT-CLASS-264-65
N73-13235*	c 10	US-PATENT-APPL-SN-98798	N73-13644*	c 21	US-PATENT-CLASS-340-33	N73-14854*	c 31	US-PATENT-3,706,583
		US-PATENT-CLASS-235-152			US-PATENT-CLASS-340-97			NASA-CASE-ERC-10392
		US-PATENT-CLASS-307-207			US-PATENT-CLASS-343-112CA			US-PATENT-APPL-SN-36534
		US-PATENT-CLASS-307-215			US-PATENT-3,699,511			US-PATENT-CLASS-340-27AT
N73-13257*	c 11	US-PATENT-3,700,868	N73-13660*	c 23	NASA-CASE-NPO-11481	N73-14855*	c 31	US-PATENT-3,706,970
		NASA-CASE-KSC-10003			US-PATENT-APPL-SN-134571			NASA-CASE-GSC-10590-1
		US-PATENT-APPL-SN-60883			US-PATENT-CLASS-179-100.2A			US-PATENT-APPL-SN-130353
		US-PATENT-CLASS-178-DIG.6			US-PATENT-CLASS-340-174.1R			US-PATENT-CLASS-102-49.5
N73-13415*	c 14	US-PATENT-CLASS-178-6	N73-13661*	c 23	US-PATENT-CLASS-346-138	N73-15235*	c 09	US-PATENT-3,706,281
		US-PATENT-CLASS-307-242			US-PATENT-CLASS-346-74MD			NASA-CASE-MSC-12433
		US-PATENT-CLASS-307-259			US-PATENT-CLASS-74-5.22			US-PATENT-APPL-SN-103551
		US-PATENT-CLASS-328-104			US-PATENT-3,697,968			US-PATENT-CLASS-244-155
N73-13416*	c 14	US-PATENT-CLASS-328-154	N73-13662*	c 23	NASA-CASE-MFS-20809	N73-16106*	c 06	US-PATENT-3,702,688
		US-PATENT-3,702,898			US-PATENT-APPL-SN-173185			NASA-CASE-NPO-10680
		NASA-CASE-LAR-10574-1			US-PATENT-CLASS-315-169R			US-PATENT-APPL-SN-104048
		US-PATENT-APPL-SN-66206			US-PATENT-CLASS-315-169TV			US-PATENT-CLASS-74-2
N73-13417*	c 14	US-PATENT-CLASS-244-1SS	N73-13773*	c 28	US-PATENT-CLASS-317-101A	N73-16205*	c 10	US-PATENT-3,706,230
		US-PATENT-3,698,659			US-PATENT-3,700,961			NASA-CASE-NPO-12106
		NASA-CASE-LAR-10855-1			NASA-CASE-MSC-12404-1			US-PATENT-APPL-SN-175881
		US-PATENT-APPL-SN-166541			US-PATENT-APPL-SN-142662			US-PATENT-CLASS-317-234V
N73-13418*	c 14	US-PATENT-CLASS-73-147	N73-13898*	c 31	US-PATENT-CLASS-356-106S	N73-16206*	c 10	US-PATENT-CLASS-317-235AG
		US-PATENT-CLASS-73-182			US-PATENT-3,702,735			US-PATENT-CLASS-317-235K
		US-PATENT-CLASS-73-189			NASA-CASE-MFS-20243			US-PATENT-CLASS-331-107G
		US-PATENT-CLASS-73-212			US-PATENT-APPL-SN-59894			US-PATENT-CLASS-331-177R
N73-13420*	c 14	US-PATENT-3,699,811	N73-13921*	c 32	US-PATENT-CLASS-250-51.5	N73-16483*	c 14	US-PATENT-CLASS-331-90
		NASA-CASE-GSC-11302-1			US-PATENT-CLASS-250-52			US-PATENT-3,694,771
		US-PATENT-APPL-SN-168650			US-PATENT-3,702,833			NASA-CASE-LAR-10668-1
		US-PATENT-CLASS-73-71.6			NASA-CASE-LEW-10374-1			US-PATENT-APPL-SN-172459
N73-13422*	c 14	US-PATENT-3,699,807	N73-14130*	c 07	US-PATENT-CLASS-137-81.5	N73-16484*	c 14	US-PATENT-CLASS-23-232E
		NASA-CASE-XLE-05230-2			US-PATENT-APPL-SN-107380			US-PATENT-CLASS-23-232R
		US-PATENT-APPL-SN-147099			US-PATENT-CLASS-60-211			US-PATENT-CLASS-23-254E
		US-PATENT-APPL-SN-877717			US-PATENT-CLASS-60-240			US-PATENT-CLASS-23-254R
N73-13424*	c 14	US-PATENT-CLASS-136-233	N73-14214*	c 09	US-PATENT-CLASS-60-243	N73-16536*	c 16	US-PATENT-CLASS-250-71R
		US-PATENT-CLASS-29-573			US-PATENT-3,702,536			US-PATENT-CLASS-250-83.3UV
		US-PATENT-CLASS-29-624			NASA-CASE-LAR-10549-1			US-PATENT-3,709,663
		US-PATENT-3,699,645			US-PATENT-APPL-SN-108824			NASA-CASE-NPO-11572
N73-13426*	c 14	US-PATENT-CLASS-137-81.5	N73-14229*	c 14	US-PATENT-CLASS-244-139	N73-16764*	c 27	US-PATENT-APPL-SN-125234
		US-PATENT-CLASS-92-49			US-PATENT-CLASS-60-291			US-PATENT-CLASS-179-15AN
		US-PATENT-3,698,412			US-PATENT-3,700,192			US-PATENT-CLASS-179-15BC
		NASA-CASE-NPO-11418-1			NASA-CASE-MSC-12233-2			US-PATENT-CLASS-325-60
N73-13435* #	c 14	US-PATENT-CLASS-92-49	N73-14427*	c 14	US-PATENT-CLASS-229-DIG.11	N73-16918*	c 33	US-PATENT-CLASS-343-200
		US-PATENT-3,698,412			US-PATENT-CLASS-52-284			US-PATENT-3,710,257
		NASA-CASE-NPO-11418-1			US-PATENT-CLASS-52-594			NASA-CASE-NPO-11282
		US-PATENT-APPL-SN-193947			US-PATENT-3,702,520			US-PATENT-APPL-SN-101354
N73-13436*	c 15	US-PATENT-CLASS-333-81B	N73-14468*	c 15	NASA-CASE-NPO-11661	N73-16918*	c 33	US-PATENT-CLASS-325-346
		US-PATENT-CLASS-333-98R			US-PATENT-APPL-SN-200682			US-PATENT-CLASS-325-419
		US-PATENT-3,702,979			US-PATENT-CLASS-343-782			US-PATENT-3,710,261
		NASA-CASE-GSC-11533-1			US-PATENT-CLASS-343-837			NASA-CASE-ERC-10285
N73-13437*	c 15	US-PATENT-APPL-SN-305013	N73-14470*	c 15	US-PATENT-CLASS-343-915	N73-16918*	c 33	US-PATENT-APPL-SN-55333
		NASA-CASE-NPO-11479			US-PATENT-3,705,406			US-PATENT-CLASS-331-45
		US-PATENT-APPL-SN-170440			NASA-CASE-ARC-10467-1			US-PATENT-CLASS-343-100R
		US-PATENT-CLASS-137-608			US-PATENT-APPL-SN-212028			US-PATENT-CLASS-343-100SA
N73-13438*	c 15	US-PATENT-CLASS-137-81.5	N73-14471*	c 15	US-PATENT-CLASS-250-205	N73-16918*	c 33	US-PATENT-CLASS-343-853
		US-PATENT-CLASS-138-45			US-PATENT-CLASS-250-211J			US-PATENT-3,710,329
		US-PATENT-CLASS-251-122			US-PATENT-CLASS-250-217SS			NASA-CASE-ERC-10226-1
		US-PATENT-3,700,005			US-PATENT-CLASS-307-310			US-PATENT-APPL-SN-124909
N73-13439*	c 15	NASA-CASE-MFS-20317	N73-14472*	c 15	US-PATENT-CLASS-307-311	N73-16918*	c 33	US-PATENT-APPL-SN-808822
		US-PATENT-APPL-SN-67730			US-PATENT-3,705,316			US-PATENT-CLASS-250-209
		US-PATENT-CLASS-173-131			NASA-CASE-NPO-10758			US-PATENT-CLASS-250-215
		US-PATENT-CLASS-72-447			US-PATENT-APPL-SN-81096			US-PATENT-CLASS-250-217
N73-13440*	c 15	US-PATENT-CLASS-72-476	N73-14473*	c 15	US-PATENT-CLASS-352-169	N73-16918*	c 33	US-PATENT-CLASS-315-153
		US-PATENT-3,699,799			US-PATENT-CLASS-95-12.5			US-PATENT-CLASS-340-25
		NASA-CASE-NPO-10812			US-PATENT-CLASS-95-59			US-PATENT-CLASS-340-27R
		US-PATENT-APPL-SN-129073			US-PATENT-3,704,659			US-PATENT-3,708,671
N73-13441*	c 15	US-PATENT-CLASS-425-113	N73-14474*	c 15	NASA-CASE-NPO-10764-1	N73-16918*	c 33	NASA-CASE-LAR-10739-1
		US-PATENT-CLASS-425-133			US-PATENT-APPL-SN-836280			US-PATENT-APPL-SN-134567
		US-PATENT-CLASS-425-176			US-PATENT-CLASS-252-408			US-PATENT-CLASS-250-217F
		US-PATENT-CLASS-72-258			US-PATENT-3,700,803			US-PATENT-CLASS-340-228S
N73-13442*	c 15	US-PATENT-3,698,848	N73-14475*	c 15	US-PATENT-CLASS-219-101	N73-16918*	c 33	US-PATENT-CLASS-340-418
		NASA-CASE-LEW-10805-1			US-PATENT-APPL-SN-11387			US-PATENT-3,708,674
		US-PATENT-APPL-SN-29917			US-PATENT-CLASS-73-57			NASA-CASE-LAR-10311-1
		US-PATENT-CLASS-148-11.5R			US-PATENT-CLASS-73-60			US-PATENT-APPL-SN-31702
N73-13443*	c 15	US-PATENT-3,702,791	N73-14476*	c 15	US-PATENT-CLASS-3706-221	N73-16918*	c 33	US-PATENT-CLASS-250-199
		NASA-CASE-MFS-20944			NASA-CASE-LAR-10103-1			US-PATENT-CLASS-340-171
		US-PATENT-APPL-SN-148756			US-PATENT-APPL-SN-103230			US-PATENT-CLASS-350-293
		US-PATENT-CLASS-91-363A			US-PATENT-CLASS-219-111			US-PATENT-3,710,122
N73-13444*	c 15	US-PATENT-CLASS-91-448	N73-14477*	c 15	US-PATENT-CLASS-219-109	N73-16918*	c 33	NASA-CASE-NPO-12015
		US-PATENT-3,702,575			US-PATENT-CLASS-29-203V			US-PATENT-APPL-SN-74862
		NASA-CASE-NPO-11369			US-PATENT-3,705,288			US-PATENT-CLASS-149-19
		US-PATENT-APPL-SN-129072			NASA-CASE-GSC-10791-1			US-PATENT-CLASS-149-36
N73-13465*	c 15	US-PATENT-CLASS-60-1	N73-14469*	c 15	US-PATENT-APPL-SN-84289	N73-16918*	c 33	US-PATENT-3,708,359
		US-PATENT-CLASS-60-23			US-PATENT-CLASS-174-52S			NASA-CASE-MSC-15567-1
		US-PATENT-CLASS-60-37			US-PATENT-CLASS-29-589			US-PATENT-APPL-SN-87551
N73-13466*	c 15	US-PATENT-CLASS-60-1	N73-14468*	c 15	US-PATENT-CLASS-29-589	N73-16918*	c 33	US-PATENT-CLASS-204-324
		US-PATENT-CLASS-60-23			US-PATENT-CLASS-174-52S			US-PATENT-APPL-SN-87551
		US-PATENT-CLASS-60-37			US-PATENT-CLASS-29-589			US-PATENT-CLASS-204-324
N73-13467*	c 15	US-PATENT-CLASS-60-1	N73-14469*	c 15	US-PATENT-CLASS-29-589	N73-16918*	c 33	US-PATENT-CLASS-204-324
		US-PATENT-CLASS-60-23			US-PATENT-CLASS-174-52S			US-PATENT-APPL-SN-87551
		US-PATENT-CLASS-60-37			US-PATENT-CLASS-29-589			US-PATENT-CLASS-204-324

N73-19004*	c 02	US-PATENT-CLASS-204-325 US-PATENT-CLASS-204-328 US-PATENT-3,708,419 NASA-CASE-ERC-10439 US-PATENT-APPL-SN-54271 US-PATENT-CLASS-244-17.13 US-PATENT-CLASS-244-77D US-PATENT-CLASS-318-489 US-PATENT-3,711,042	N73-20217*	c 08	NASA-CASE-LAR-10128-1 US-PATENT-APPL-SN-84002 US-PATENT-CLASS-235-92FQ US-PATENT-CLASS-235-92R US-PATENT-CLASS-235-92T US-PATENT-CLASS-340-347AD US-PATENT-3,714,645	N73-24513*	c 15	US-PATENT-3,729,676 NASA-CASE-NPO-11417 US-PATENT-APPL-SN-120241 US-PATENT-CLASS-417-391 US-PATENT-CLASS-60-25 US-PATENT-3,732,040
N73-19234*	c 09	NASA-CASE-GSC-11013-1 US-PATENT-APPL-SN-200717 US-PATENT-CLASS-343-754 US-PATENT-CLASS-343-839 US-PATENT-CLASS-343-854 US-PATENT-CLASS-343-895 US-PATENT-3,713,163	N73-20231*	c 09	NASA-CASE-ARC-10264-1 US-PATENT-APPL-SN-80368 US-PATENT-CLASS-328-167 US-PATENT-CLASS-330-109 US-PATENT-CLASS-330-86 US-PATENT-3,714,588	N73-24569*	c 17	NASA-CASE-LEW-10920-1 US-PATENT-APPL-SN-106424 US-PATENT-CLASS-204-192 US-PATENT-3,732,158
N73-19235*	c 09	NASA-CASE-MFS-20407 US-PATENT-APPL-SN-116777 US-PATENT-CLASS-317-235AM US-PATENT-CLASS-317-235N US-PATENT-CLASS-317-235R US-PATENT-CLASS-317-235T US-PATENT-CLASS-317-235UA US-PATENT-3,714,526	N73-20232*	c 09	NASA-CASE-MFS-21433 US-PATENT-APPL-SN-236281 US-PATENT-CLASS-307-230 US-PATENT-CLASS-307-304 US-PATENT-CLASS-330-22 US-PATENT-CLASS-330-30D US-PATENT-CLASS-330-35 US-PATENT-CLASS-330-40 US-PATENT-CLASS-330-80T US-PATENT-3,715,693	N73-24783*	c 28	NASA-CASE-NPO-11880 US-PATENT-APPL-SN-209535 US-PATENT-CLASS-313-DIG.8 US-PATENT-CLASS-313-231 US-PATENT-CLASS-313-63 US-PATENT-CLASS-60-202 US-PATENT-3,313,204 US-PATENT-3,728,861
N73-19419*	c 14	NASA-CASE-LAR-10226-1 US-PATENT-APPL-SN-98774 US-PATENT-CLASS-250-217R US-PATENT-CLASS-95-11.5R US-PATENT-CLASS-95-11R US-PATENT-3,712,195	N73-20253*	c 10	NASA-CASE-LAR-10310-1 US-PATENT-APPL-SN-147103 US-PATENT-CLASS-235-197 US-PATENT-3,714,405	N73-24784*	c 28	NASA-CASE-NPO-11559 US-PATENT-APPL-SN-147996 US-PATENT-CLASS-102-49.7 US-PATENT-CLASS-102-49.8 US-PATENT-CLASS-60-254 US-PATENT-CLASS-60-256 US-PATENT-3,729,935
N73-19420*	c 14	NASA-CASE-MFS-20774 US-PATENT-APPL-SN-161028 US-PATENT-CLASS-73-84 US-PATENT-3,712,121	N73-20254*	c 10	NASA-CASE-NPO-11868 US-PATENT-APPL-SN-192101 US-PATENT-CLASS-307-221R US-PATENT-CLASS-328-187 US-PATENT-CLASS-328-37 US-PATENT-CLASS-328-61 US-PATENT-3,718,863	N73-25125*	c 05	NASA-CASE-MFS-20332-2 US-PATENT-APPL-SN-195061 US-PATENT-APPL-SN-869260 US-PATENT-CLASS-128-142.5 US-PATENT-CLASS-137-538 US-PATENT-CLASS-2-2.1A US-PATENT-3,720,208
N73-19421*	c 14	NASA-CASE-MFS-20242 US-PATENT-APPL-SN-213004 US-PATENT-CLASS-73-71.6 US-PATENT-3,712,120	N73-20267*	c 11	NASA-CASE-MFS-21362 US-PATENT-APPL-SN-211411 US-PATENT-CLASS-73-432SD US-PATENT-3,714,833	N73-25160*	c 07	NASA-CASE-ARC-10097-2 US-PATENT-APPL-SN-115083 US-PATENT-APPL-SN-768662 US-PATENT-CLASS-325-113 US-PATENT-CLASS-325-139 US-PATENT-CLASS-325-45 US-PATENT-CLASS-325-61 US-PATENT-CLASS-340-207 US-PATENT-CLASS-340-258R US-PATENT-3,719,891
N73-19457*	c 15	NASA-CASE-MFS-20698-2 US-PATENT-APPL-SN-136086 US-PATENT-APPL-SN-3418 US-PATENT-CLASS-423-446 US-PATENT-CLASS-423-625 US-PATENT-3,714,332	N73-20474*	c 14	NASA-CASE-ERC-10350 US-PATENT-APPL-SN-55535 US-PATENT-CLASS-340-27R US-PATENT-3,714,624	N73-25161*	c 07	NASA-CASE-NPO-11707 US-PATENT-APPL-SN-196399 US-PATENT-CLASS-343-6.8R US-PATENT-CLASS-343-6.8R US-PATENT-3,729,736
N73-19458*	c 15	NASA-CASE-LAR-10195-1 US-PATENT-APPL-SN-201782 US-PATENT-CLASS-259-4 US-PATENT-3,712,591	N73-20475*	c 14	NASA-CASE-LAR-10726-1 US-PATENT-APPL-SN-146935 US-PATENT-CLASS-250-231 US-PATENT-CLASS-250-83.3H US-PATENT-3,714,432	N73-25206*	c 08	NASA-CASE-NPO-11497 US-PATENT-APPL-SN-155565 US-PATENT-CLASS-235-10.2 US-PATENT-CLASS-235-151.27 US-PATENT-CLASS-235-92CV US-PATENT-CLASS-235-92DN US-PATENT-CLASS-235-92EA US-PATENT-CLASS-235-92EV US-PATENT-CLASS-235-92R US-PATENT-3,729,129
N73-19630* #	c 21	NASA-CASE-GSC-11188-2 US-PATENT-APPL-SN-244440 US-PATENT-CLASS-11187-1 US-PATENT-APPL-SN-147922 US-PATENT-CLASS-60-39.28R US-PATENT-3,713,290	N73-20476*	c 14	NASA-CASE-MFS-20673 US-PATENT-APPL-SN-94049 US-PATENT-CLASS-73-90 US-PATENT-CLASS-73-91 US-PATENT-3,714,821	N73-25240*	c 10	NASA-CASE-MSC-12428-1 US-PATENT-APPL-SN-170681 US-PATENT-CLASS-179-15A US-PATENT-CLASS-235-151.31 US-PATENT-CLASS-324-77R US-PATENT-CLASS-324-78J US-PATENT-3,732,405
N73-19793*	c 28	NASA-CASE-LEW-11187-1 US-PATENT-APPL-SN-147922 US-PATENT-CLASS-60-39.28R US-PATENT-3,713,290	N73-20477*	c 14	NASA-CASE-ARC-10443-1 US-PATENT-APPL-SN-128419 US-PATENT-CLASS-250-83.3R US-PATENT-CLASS-250-83R US-PATENT-3,715,590	N73-25241*	c 10	NASA-CASE-GSC-11239-1 US-PATENT-APPL-SN-180683 US-PATENT-CLASS-325-363 US-PATENT-CLASS-325-67 US-PATENT-3,737,781
N73-20039*	c 03	NASA-CASE-GSC-10814-1 US-PATENT-APPL-SN-41404 US-PATENT-CLASS-244-15A US-PATENT-CLASS-244-15S US-PATENT-3,715,092	N73-20478*	c 14	NASA-CASE-NPO-10985 US-PATENT-APPL-SN-74759 US-PATENT-CLASS-324-30R US-PATENT-CLASS-324-65P US-PATENT-CLASS-73-194E US-PATENT-3,712,132	N73-25243*	c 10	NASA-CASE-MFS-21919-1 US-PATENT-APPL-SN-193456 US-PATENT-CLASS-317-100 US-PATENT-CLASS-317-101DH US-PATENT-3,735,206
N73-20040*	c 03	NASA-CASE-NPO-11771 US-PATENT-APPL-SN-200762 US-PATENT-CLASS-244-1.55 US-PATENT-CLASS-250-212 US-PATENT-CLASS-250-234 US-PATENT-CLASS-60-26 US-PATENT-3,715,600	N73-20514*	c 15	NASA-CASE-NPO-11213 US-PATENT-APPL-SN-78703 US-PATENT-CLASS-195-127 US-PATENT-3,713,987	N73-25262*	c 12	NASA-CASE-LAR-10578-1 US-PATENT-APPL-SN-233098 US-PATENT-CLASS-73-147 US-PATENT-3,731,528
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N73-20174*	c 07	NASA-CASE-GSC-10087-4 US-PATENT-APPL-SN-47440 US-PATENT-APPL-SN-701679 US-PATENT-CLASS-325-12 US-PATENT-CLASS-325-17 US-PATENT-CLASS-325-4 US-PATENT-CLASS-325-63 US-PATENT-CLASS-325-7 US-PATENT-CLASS-325-8 US-PATENT-CLASS-325-9 US-PATENT-CLASS-343-179 US-PATENT-3,715,663	N73-20741*	c 23	NASA-CASE-ARC-10194-1 US-PATENT-APPL-SN-107659 US-PATENT-CLASS-350-202 US-PATENT-3,715,152	N73-25461*	c 14	NASA-CASE-KSC-10108 US-PATENT-APPL-SN-73922 US-PATENT-CLASS-343-14 US-PATENT-CLASS-343-17.5 US-PATENT-CLASS-343-6.8R US-PATENT-3,732,567
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		US-PATENT-CLASS-358-107			US-PATENT-CLASS-313-35	US-PATENT-CLASS-313-35			US-PATENT-CLASS-204-1T	US-PATENT-CLASS-204-1T
		US-PATENT-4,135,817			US-PATENT-CLASS-313-35	US-PATENT-CLASS-313-35			US-PATENT-CLASS-204-1T	US-PATENT-CLASS-204-1T
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		US-PATENT-3,785,836	N82-30105*	c 76	US-PATENT-APPL-SN-233269			US-PATENT-CLASS-250-370
N82-29453*	c 27	NASA-CASE-LEW-13268-1			US-PATENT-CLASS-156-602			US-PATENT-4,331,873
		US-PATENT-APPL-SN-145209			US-PATENT-CLASS-156-608	N82-33288*	c 85	NASA-CASE-FRC-11058-1
		US-PATENT-CLASS-415-174			US-PATENT-CLASS-422-246			US-PATENT-APPL-SN-175453
		US-PATENT-CLASS-427-34			US-PATENT-4,330,359			US-PATENT-CLASS-105-2R
		US-PATENT-CLASS-427-423			NASA-CASE-LEW-13169-2			US-PATENT-CLASS-244-53B
		US-PATENT-4,336,276	N82-30371*	c 26	US-PATENT-APPL-SN-102003			US-PATENT-CLASS-296-1S
N82-29454*	c 27	NASA-CASE-HQN-10328-2			US-PATENT-APPL-SN-191746			US-PATENT-CLASS-296-24C
		US-PATENT-APPL-SN-246294			US-PATENT-CLASS-204-192C			US-PATENT-CLASS-296-91
		US-PATENT-APPL-SN-874673			US-PATENT-CLASS-428-457			US-PATENT-4,343,506
		US-PATENT-CLASS-106-50			US-PATENT-CLASS-428-472	N82-33520*	c 27	NASA-CASE-KSC-11097-1
		US-PATENT-CLASS-106-52			US-PATENT-4,341,843			US-PATENT-APPL-SN-172100
		US-PATENT-CLASS-106-54			NASA-CASE-LEW-13339-1			US-PATENT-CLASS-427-140
		US-PATENT-3,811,901	N82-31505*	c 26	US-PATENT-APPL-SN-199769			US-PATENT-CLASS-427-372.2
N82-29455*	c 27	NASA-CASE-HQN-10585-1			US-PATENT-CLASS-148-428			US-PATENT-CLASS-427-397.7
		US-PATENT-APPL-SN-259056			US-PATENT-CLASS-420-445			US-PATENT-4,330,572
		US-PATENT-APPL-SN-874675			US-PATENT-CLASS-420-551	N82-33521*	c 27	NASA-CASE-LEW-13028-1
		US-PATENT-CLASS-106-50			US-PATENT-CLASS-420-588			US-PATENT-APPL-SN-218588
		US-PATENT-CLASS-106-52			US-PATENT-4,340,425			US-PATENT-CLASS-204-192E
		US-PATENT-3,947,281	N82-31583*	c 32	NASA-CASE-MSC-16462-1			US-PATENT-CLASS-204-192EC
N82-29456*	c 27	NASA-CASE-MSC-18741-1			US-PATENT-APPL-SN-900841			US-PATENT-CLASS-204-38B
		US-PATENT-APPL-SN-217336			US-PATENT-CLASS-178-22.16			US-PATENT-CLASS-428-141
		US-PATENT-CLASS-156-329			US-PATENT-CLASS-178-22.17			US-PATENT-4,344,996
		US-PATENT-CLASS-244-121			US-PATENT-CLASS-364-717	N82-33523* #	c 27	NASA-CASE-ARC-14408-1
		US-PATENT-CLASS-244-158A			US-PATENT-CLASS-375-106			US-PATENT-APPL-SN-403371
		US-PATENT-CLASS-244-160			US-PATENT-4,341,925	N82-33634* #	c 33	NASA-CASE-MFS-15670-1
		US-PATENT-CLASS-244-163	N82-31659*	c 35	NASA-CASE-LAR-12363-1			US-PATENT-APPL-SN-409679
		US-PATENT-CLASS-428-212			US-PATENT-APPL-SN-191748			NASA-CASE-NPO-14549-2
		US-PATENT-CLASS-428-218			US-PATENT-CLASS-250-332	N82-33996*	c 52	US-PATENT-APPL-SN-149526
		US-PATENT-CLASS-428-283			US-PATENT-CLASS-250-370			US-PATENT-APPL-SN-918705
		US-PATENT-CLASS-428-289			US-PATENT-CLASS-29-576J			US-PATENT-CLASS-128-422
		US-PATENT-CLASS-428-307.7			US-PATENT-CLASS-29-576S			US-PATENT-CLASS-128-784
		US-PATENT-CLASS-428-311.5			US-PATENT-CLASS-29-620			US-PATENT-CLASS-128-804
		US-PATENT-CLASS-428-312.6			US-PATENT-4,341,012			US-PATENT-4,346,715
		US-PATENT-CLASS-428-317.9	N82-31690* #	c 37	NASA-CASE-MSC-20304-1	N83-10040*	c 06	NASA-CASE-NPO-15351-1
		US-PATENT-CLASS-428-325			US-PATENT-APPL-SN-393585			US-PATENT-APPL-SN-224231
		US-PATENT-CLASS-428-446			NASA-CASE-LEW-13400-1			US-PATENT-CLASS-343-100ME
		US-PATENT-CLASS-428-49	N82-31764*	c 44	US-PATENT-APPL-SN-219677			US-PATENT-CLASS-374-122
		US-PATENT-4,338,368			US-PATENT-CLASS-136-249			US-PATENT-CLASS-374-123
N82-29538*	c 33	NASA-CASE-NPO-15066-1			US-PATENT-CLASS-357-30			US-PATENT-CLASS-73-170R
		US-PATENT-APPL-SN-191744			US-PATENT-4,341,918			US-PATENT-CLASS-73-178R
		US-PATENT-CLASS-179-18GF			NASA-CASE-LEW-12938-1			US-PATENT-4,346,595
		US-PATENT-CLASS-340-825.89	N82-32366*	c 07	US-PATENT-APPL-SN-060449	N83-10117*	c 24	NASA-CASE-LEW-12919-1
		US-PATENT-CLASS-370-67			US-PATENT-CLASS-415-145			US-PATENT-APPL-SN-264378
		US-PATENT-4,331,956			US-PATENT-CLASS-415-178			US-PATENT-CLASS-204-192E
N82-29539*	c 33	NASA-CASE-NPO-14311-1			US-PATENT-CLASS-60-39.07			US-PATENT-CLASS-313-106
		US-PATENT-APPL-SN-969762			US-PATENT-CLASS-60-39.29			US-PATENT-CLASS-313-107
		US-PATENT-CLASS-328-166			US-PATENT-CLASS-60-726			US-PATENT-CLASS-315-5.38
		US-PATENT-CLASS-455-202			US-PATENT-4,329,114			US-PATENT-4,349,424
		US-PATENT-CLASS-455-208			NASA-CASE-LAR-12468-1	N83-10126*	c 25	NASA-CASE-MFS-25426-1
		US-PATENT-CLASS-455-234			US-PATENT-APPL-SN-135057			US-PATENT-APPL-SN-254575
		US-PATENT-CLASS-455-306			US-PATENT-CLASS-244-118.1			US-PATENT-CLASS-204-299R
		US-PATENT-4,336,616			US-PATENT-CLASS-244-137R			US-PATENT-4,349,429
N82-29589*	c 36	NASA-CASE-NPO-15111-1			US-PATENT-CLASS-89-1.5G	N83-10170*	c 26	NASA-CASE-LEW-12941-1
		US-PATENT-APPL-SN-150040			US-PATENT-4,343,447			US-PATENT-APPL-SN-210632
		US-PATENT-CLASS-350-358			NASA-CASE-LAR-12620-1			US-PATENT-CLASS-29-458
		US-PATENT-4,332,441	N82-32417*	c 24	US-PATENT-APPL-SN-072857			US-PATENT-CLASS-29-521
N82-29708*	c 44	NASA-CASE-LEW-13171-1			US-PATENT-CLASS-244-132			US-PATENT-CLASS-403-282
		US-PATENT-APPL-SN-238790			US-PATENT-CLASS-244-158A			US-PATENT-4,349,954
		US-PATENT-CLASS-429-144			US-PATENT-CLASS-428-594	N83-10345*	c 33	NASA-CASE-MFS-25208-1
		US-PATENT-CLASS-429-251			US-PATENT-CLASS-428-604			US-PATENT-APPL-SN-280154
		US-PATENT-CLASS-429-254			US-PATENT-CLASS-428-607			US-PATENT-CLASS-318-803
		US-PATENT-4,331,746			US-PATENT-CLASS-428-608			US-PATENT-CLASS-363-87
N82-29709*	c 44	NASA-CASE-LEW-13401-1			US-PATENT-4,344,591			US-PATENT-4,351,022
		US-PATENT-APPL-SN-219678	N82-32659*	c 35	NASA-CASE-GSC-12587-1	N83-10417*	c 36	NASA-CASE-NPO-15021-1
		US-PATENT-CLASS-136-249			US-PATENT-APPL-SN-173524			US-PATENT-APPL-SN-130496
		US-PATENT-CLASS-148-1.5			US-PATENT-CLASS-250-369			US-PATENT-CLASS-372-56
		US-PATENT-CLASS-29-572			US-PATENT-4,345,153			US-PATENT-CLASS-372-59
		US-PATENT-CLASS-357-30			NASA-CASE-LAR-12328-1			US-PATENT-CLASS-372-60
		US-PATENT-4,335,503	N82-32712*	c 36	US-PATENT-APPL-SN-073477			US-PATENT-4,347,613
N82-29710*	c 44	NASA-CASE-NPO-15269-1			US-PATENT-CLASS-350-453	N83-10494*	c 44	NASA-CASE-LEW-13131-1
		US-PATENT-APPL-SN-220214			US-PATENT-CLASS-356-28.5			US-PATENT-APPL-SN-246772
		US-PATENT-CLASS-204-290F			US-PATENT-4,346,990			US-PATENT-CLASS-204-56R
		US-PATENT-CLASS-204-290R			NASA-CASE-GSC-12584-1			US-PATENT-4,350,574
		US-PATENT-CLASS-429-193	N82-32730*	c 37	US-PATENT-APPL-SN-182879			NASA-CASE-NPO-14369-1
		US-PATENT-CLASS-429-33			US-PATENT-CLASS-125-23R	N83-10501*	c 44	US-PATENT-APPL-SN-126063
		US-PATENT-CLASS-429-40			US-PATENT-CLASS-225-103			US-PATENT-CLASS-422-200
		US-PATENT-4,331,742			US-PATENT-4,343,287			US-PATENT-CLASS-422-202
N82-29862*	c 52	NASA-CASE-LAR-12471-1	N82-32731*	c 37	NASA-CASE-MFS-23846-1			US-PATENT-CLASS-422-224
		US-PATENT-APPL-SN-178193			US-PATENT-APPL-SN-168944			US-PATENT-CLASS-55-204
		US-PATENT-CLASS-128-62A			US-PATENT-CLASS-294-116			US-PATENT-4,343,772
		US-PATENT-CLASS-433-118			US-PATENT-CLASS-414-222	N83-10900*	c 74	NASA-CASE-GSC-12608-1
		US-PATENT-CLASS-433-125			US-PATENT-CLASS-414-226			US-PATENT-APPL-SN-195228
		US-PATENT-CLASS-433-86			US-PATENT-CLASS-414-739			US-PATENT-CLASS-350-170
		US-PATENT-4,331,422			US-PATENT-4,343,584			US-PATENT-CLASS-350-286
N82-29863*	c 52	NASA-CASE-GSC-12560-1	N82-32732*	c 37	NASA-CASE-LAR-12482-1			US-PATENT-4,350,410
		US-PATENT-APPL-SN-153246			US-PATENT-APPL-SN-100611	N83-13171*	c 24	NASA-CASE-MSC-18737-1

				US-PATENT-APPL-SN-266256	N83-18975*	c 32	NASA-CASE-NPO-14998-1	US-PATENT-CLASS-415-174
				US-PATENT-CLASS-427-379			US-PATENT-APPL-SN-195547	US-PATENT-CLASS-415-197
				US-PATENT-CLASS-427-384			US-PATENT-CLASS-250-203R	US-PATENT-4,377,371
				US-PATENT-CLASS-427-387			US-PATENT-CLASS-343-100CL	N83-21311*
				US-PATENT-CLASS-428-218			US-PATENT-CLASS-343-5CM	c 35
				US-PATENT-4,358,486			US-PATENT-CLASS-364-822	NASA-CASE-LAR-12469-1
N83-13172*	c 24			NASA-CASE-MSC-18736-1			US-PATENT-CLASS-364-861	US-PATENT-APPL-SN-195223
				US-PATENT-APPL-SN-266254			US-PATENT-4,371,946	US-PATENT-CLASS-250-338
				US-PATENT-CLASS-244-158A	N83-18996*	c 33	NASA-CASE-NPO-14567-1	US-PATENT-CLASS-250-372
				US-PATENT-CLASS-427-140			US-PATENT-APPL-SN-038550	US-PATENT-CLASS-250-474.1
				US-PATENT-CLASS-427-292			US-PATENT-APPL-SN-180230	US-PATENT-CLASS-356-51
				US-PATENT-CLASS-427-302			US-PATENT-CLASS-250-311	US-PATENT-4,372,680
				US-PATENT-CLASS-427-379			US-PATENT-CLASS-324-73R	N83-21312*
				US-PATENT-CLASS-427-384			US-PATENT-CLASS-356-394	c 35
				US-PATENT-CLASS-427-387			US-PATENT-4,358,732	NASA-CASE-MSC-18723-1
				US-PATENT-CLASS-428-63	N83-19015*	c 34	NASA-CASE-MFS-25282-1	US-PATENT-APPL-SN-234223
				US-PATENT-4,358,480			US-PATENT-APPL-SN-263828	US-PATENT-CLASS-73-818
N83-13187*	c 25			NASA-CASE-MFS-25306-1			US-PATENT-CLASS-378-2	US-PATENT-4,377,089
				US-PATENT-APPL-SN-309293			US-PATENT-CLASS-378-43	N83-21503*
				US-PATENT-CLASS-204-280R			US-PATENT-4,370,750	c 44
				US-PATENT-CLASS-204-299R			US-PATENT-CLASS-378-43	NASA-CASE-LAR-12720-1
				US-PATENT-4,358,358	N83-19091*	c 37	NASA-CASE-LAR-12361-1	US-PATENT-APPL-SN-274706
N83-13188*	c 25			NASA-CASE-LEW-13504-1			US-PATENT-APPL-SN-182880	US-PATENT-CLASS-73-147
				US-PATENT-APPL-SN-272234			US-PATENT-CLASS-411-353	US-PATENT-4,372,159
				US-PATENT-CLASS-264-104			US-PATENT-CLASS-411-517	N83-21785*
				US-PATENT-CLASS-429-206			US-PATENT-4,371,301	c 52
				US-PATENT-CLASS-429-253	N83-19596*	c 74	NASA-CASE-LEW-12253-1	NASA-CASE-LEW-13107-1
				US-PATENT-CLASS-525-61			US-PATENT-APPL-SN-243682	US-PATENT-APPL-SN-272407
				US-PATENT-4,357,402			US-PATENT-CLASS-165-104.26	US-PATENT-CLASS-604-280
N83-13323*	c 32			NASA-CASE-KSC-11025-1			US-PATENT-CLASS-165-134R	US-PATENT-CLASS-604-8
				US-PATENT-APPL-SN-061327			US-PATENT-CLASS-29-157.3H	US-PATENT-4,377,169
				US-PATENT-CLASS-371-6			US-PATENT-CLASS-29-157.3H	N83-21949*
				US-PATENT-4,358,846			US-PATENT-CLASS-372-377	c 74
				NASA-CASE-LEW-13620-1	N83-19597*	c 74	NASA-CASE-NPO-14864-1	NASA-CASE-ARC-11354-1
				US-PATENT-APPL-SN-242796			US-PATENT-APPL-SN-061822	US-PATENT-APPL-SN-282192
				US-PATENT-CLASS-136-256			US-PATENT-CLASS-250-227	US-PATENT-CLASS-356-357
				US-PATENT-CLASS-136-259			US-PATENT-CLASS-250-332	US-PATENT-CLASS-73-147
				US-PATENT-CLASS-29-572			US-PATENT-CLASS-250-340	US-PATENT-4,377,343
				US-PATENT-CLASS-357-30			US-PATENT-CLASS-250-350	N83-24572* #
				US-PATENT-CLASS-427-88			US-PATENT-CLASS-250-351	c 25
				US-PATENT-CLASS-427-89			US-PATENT-CLASS-350-353	NASA-CASE-NPO-16135-1
				US-PATENT-CLASS-427-90	N83-19737*	c 05	US-PATENT-4,262,198	US-PATENT-APPL-SN-470114
				US-PATENT-CLASS-427-91			NASA-CASE-FRC-11065-1	N83-24763*
				US-PATENT-4,335,196			US-PATENT-APPL-SN-248744	c 33
N83-13978*	c 74			NASA-CASE-ARC-11311-1			US-PATENT-CASE-244-121	NASA-CASE-LAR-12363-2
				US-PATENT-APPL-SN-219640			US-PATENT-CASE-244-129.4	US-PATENT-APPL-SN-377892
				US-PATENT-CLASS-350-287			US-PATENT-CASE-292-254	US-PATENT-CLASS-250-388
				US-PATENT-CLASS-350-486	N83-19900*	c 27	US-PATENT-4,375,281	US-PATENT-4,379,970
				US-PATENT-4,355,870			NASA-CASE-NPO-14857-1	N83-24828*
N83-14692*	c 44			NASA-CASE-LEW-12892-1			US-PATENT-APPL-SN-158530	c 35
				US-PATENT-APPL-SN-264380			US-PATENT-CLASS-523-205	NASA-CASE-MFS-25509-1
				US-PATENT-CLASS-136-255			US-PATENT-CLASS-524-436	US-PATENT-APPL-SN-297486
				US-PATENT-CLASS-136-256			US-PATENT-CLASS-524-437	US-PATENT-CLASS-156-DIG.62
				US-PATENT-CLASS-136-259			US-PATENT-CLASS-524-503	US-PATENT-CLASS-34-57A
				US-PATENT-4,360,701			US-PATENT-CLASS-524-564	US-PATENT-CLASS-432-227
N83-14693*	c 44			NASA-CASE-MSC-18794-1			US-PATENT-CLASS-524-786	US-PATENT-CLASS-432-58
				US-PATENT-APPL-SN-238785	N83-19947*	c 31	US-PATENT-4,373,039	US-PATENT-4,378,209
				US-PATENT-CLASS-417-399			NASA-CASE-NPO-15789-1	N83-25217*
				US-PATENT-CLASS-74-110			US-PATENT-APPL-SN-322316	c 45
				US-PATENT-4,360,325			US-PATENT-CLASS-204-129.55	NASA-CASE-NPO-15220-1
N83-16626*	c 33			NASA-CASE-LAR-12772-1			US-PATENT-CLASS-204-129.75	US-PATENT-APPL-SN-246777
				US-PATENT-APPL-SN-199767			US-PATENT-4,375,396	US-PATENT-CLASS-220-335
				US-PATENT-CLASS-73-579	N83-19968*	c 32	NASA-CASE-NPO-14035-1	US-PATENT-CLASS-73-863.31
				US-PATENT-CLASS-73-597			US-PATENT-APPL-SN-858767	US-PATENT-CLASS-73-863.83
				US-PATENT-CLASS-73-629			US-PATENT-CLASS-343-100CL	US-PATENT-CLASS-73-864.63
				US-PATENT-CLASS-73-761			US-PATENT-CLASS-343-5CM	US-PATENT-4,377,949
				US-PATENT-4,363,242			US-PATENT-CLASS-343-9PS	N83-25346*
N83-16633* #	c 33			NASA-CASE-LAR-12847-1			US-PATENT-4,371,873	c 52
				US-PATENT-APPL-SN-393456	N83-20280*	c 39	NASA-CASE-MSC-18929-1	NASA-CASE-NPO-15197-1
				US-PATENT-CLASS-128-782			US-PATENT-APPL-SN-198093	US-PATENT-APPL-SN-263957
N83-17045*	c 51			NASA-CASE-NPO-15213-1			US-PATENT-CLASS-128-782	US-PATENT-CLASS-128-303B
				US-PATENT-APPL-SN-280153			US-PATENT-CLASS-358-105	US-PATENT-CLASS-128-774
				US-PATENT-CLASS-47-58			US-PATENT-CLASS-364-413	US-PATENT-CLASS-128-782
				US-PATENT-CLASS-71-88			US-PATENT-CLASS-364-512	US-PATENT-4,378,813
				US-PATENT-4,363,188			US-PATENT-CLASS-364-522	N83-25378*
N83-17235*	c 71			NASA-CASE-LAR-12883-1			US-PATENT-CLASS-364-559	c 60
				US-PATENT-APPL-SN-267935			US-PATENT-CLASS-73-379	NASA-CASE-GSC-12223-1
				US-PATENT-CLASS-73-147			US-PATENT-4,375,674	US-PATENT-APPL-SN-041143
				US-PATENT-4,363,237			NASA-CASE-NPO-15625-1	US-PATENT-CLASS-364-200
N83-17305*	c 74			NASA-CASE-MFS-25312-1			US-PATENT-APPL-SN-325933	US-PATENT-4,380,046
				US-PATENT-APPL-SN-187106			US-PATENT-CLASS-148-173	N83-25789*
				US-PATENT-CLASS-350-171			US-PATENT-CLASS-148-175	c 24
				US-PATENT-4,362,361			US-PATENT-CLASS-156-608	NASA-CASE-ARC-11261-1
N83-17588* #	c 20			NASA-CASE-MFS-25843-1			US-PATENT-CLASS-156-624	US-PATENT-APPL-SN-282129
				US-PATENT-APPL-SN-444125			US-PATENT-CLASS-156-635	US-PATENT-CLASS-423-447.2
				NASA-CASE-MSC-18832-1			US-PATENT-CLASS-156-654	US-PATENT-CLASS-423-447.6
N83-18908*	c 27			US-PATENT-APPL-SN-365950			US-PATENT-CLASS-156-662	US-PATENT-CLASS-423-447.7
				US-PATENT-CLASS-428-241	N83-20944*	c 07	US-PATENT-4,373,989	US-PATENT-CLASS-423-447.7
				US-PATENT-CLASS-428-244			NASA-CASE-MFS-23981-1	US-PATENT-4,385,043
				US-PATENT-CLASS-428-245			US-PATENT-APPL-SN-231543	N83-26078*
				US-PATENT-CLASS-428-260			US-PATENT-CLASS-244-159	c 37
				US-PATENT-CLASS-428-331			US-PATENT-CLASS-244-173	NASA-CASE-GSC-12643-1
				US-PATENT-CLASS-428-368			US-PATENT-CLASS-322-2R	US-PATENT-APPL-SN-238786
				US-PATENT-CLASS-428-902			US-PATENT-CLASS-339-3R	US-PATENT-CLASS-417-15
				US-PATENT-CLASS-428-913			US-PATENT-CLASS-339-5R	US-PATENT-CLASS-47-26
				US-PATENT-CLASS-428-920			US-PATENT-CLASS-343-DIG2	US-PATENT-4,381,174
				US-PATENT-4,373,003	N83-20996*	c 18	US-PATENT-4,377,266	N83-27058*
							US-PATENT-APPL-SN-242795	c 31
							NASA-CASE-NPO-15625-1	NASA-CASE-GSC-12636-1
							US-PATENT-APPL-SN-325933	US-PATENT-APPL-SN-173520
							US-PATENT-CLASS-148-173	US-PATENT-CLASS-125-20
							US-PATENT-CLASS-148-175	US-PATENT-CLASS-125-20
							US-PATENT-CLASS-156-608	US-PATENT-CLASS-408-1R
							US-PATENT-CLASS-156-624	US-PATENT-CLASS-408-61
							US-PATENT-CLASS-156-635	US-PATENT-CLASS-409-131
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		US-PATENT-5,012,062			NAS 1.71:MFS-28521-1			US-PATENT-CLASS-528-230
N91-25298* #	c 27	NAS 1.71:LEW-15164-1	N91-26542* #	c 37	NASA-CASE-MFS-28521-1			US-PATENT-CLASS-528-233
		NASA-CASE-LEW-15164-1			US-PATENT-APPL-SN-657586	N91-27385* #	c 31	US-PATENT-5,011,907
		US-PATENT-APPL-SN-699130			NASA-CASE-MSC-21025-3			INT-PATENT-CLASS-F28F-7/00
N91-25305* #	c 31	INT-PATENT-CLASS-F16L-55/04	N91-26747* #	c 54	US-PATENT-APPL-SN-035401			NASA-CASE-NPO-17806-1-CU
		NASA-CASE-MSC-21703-1			US-PATENT-APPL-SN-392174			US-PATENT-APPL-SN-560908
		US-PATENT-APPL-SN-603052			US-PATENT-CLASS-83-203			US-PATENT-CLASS-136-204
		US-PATENT-CLASS-138-26			US-PATENT-CLASS-83-206			US-PATENT-CLASS-165-1
		US-PATENT-CLASS-138-30			US-PATENT-CLASS-83-277			US-PATENT-CLASS-165-185
		US-PATENT-5,027,860			US-PATENT-CLASS-83-282			US-PATENT-5,031,689
N91-25306* #	c 31	NAS 1.71:MFS-28545-1			US-PATENT-CLASS-83-614	N91-27439* #	c 32	INT-PATENT-CLASS-H04L-27/22
		NASA-CASE-MFS-28545-1			US-PATENT-CLASS-83-649			NASA-CASE-NPO-17896-1-CU
		US-PATENT-APPL-SN-674636			US-PATENT-5,005,457			US-PATENT-APPL-SN-560691
N91-25316* #	c 32	INT-PATENT-CLASS-H04B-1/10	N91-26918* #	c 74	NASA-CASE-NPO-17512-1-CU			US-PATENT-CLASS-329-304
		NASA-CASE-NPO-16987-1-CU			US-PATENT-APPL-SN-310992			US-PATENT-CLASS-375-53
		US-PATENT-APPL-SN-203374			US-PATENT-CLASS-350-353			US-PATENT-CLASS-375-56
		US-PATENT-CLASS-375-53			US-PATENT-CLASS-350-354			US-PATENT-CLASS-375-85
		US-PATENT-CLASS-375-56			US-PATENT-CLASS-350-358			US-PATENT-CLASS-375-86
		US-PATENT-CLASS-375-85			US-PATENT-CLASS-364-713			US-PATENT-5,017,883
		US-PATENT-CLASS-375-97			US-PATENT-CLASS-364-822	N91-27478* #	c 33	INT-PATENT-CLASS-H01M-4/04
		US-PATENT-5,007,068			US-PATENT-CLASS-364-837			INT-PATENT-CLASS-H01M-4/58
N91-25317* #	c 32	INT-PATENT-CLASS-G06F-15/20			US-PATENT-CLASS-364-841			NASA-CASE-NPO-17809-1-CU
		NASA-CASE-MSC-21334-1			US-PATENT-5,005,954			US-PATENT-APPL-SN-503409
		US-PATENT-APPL-SN-292130	N91-26966* #	c 76	NAS 1.71:LEW-15222-1			US-PATENT-CLASS-29-623.5
		US-PATENT-CLASS-364-578			NASA-CASE-LEW-15222-1			US-PATENT-CLASS-29-223
		US-PATENT-5,005,147			US-PATENT-APPL-SN-718315			US-PATENT-5,019,470
N91-25318* #	c 32	INT-PATENT-CLASS-H04L-27/18	N91-27139* #	c 02	INT-PATENT-CLASS-B64C-17/00	N91-27479* #	c 33	INT-PATENT-CLASS-G05F-1/12
		NASA-CASE-NPO-17853-1-CU			NASA-CASE-LAR-14322-1			NASA-CASE-GSC-13280-1
		US-PATENT-APPL-SN-443539			US-PATENT-APPL-SN-603335			US-PATENT-APPL-SN-418373
		US-PATENT-CLASS-329-304			US-PATENT-CLASS-244-113			US-PATENT-CLASS-323-311
		US-PATENT-CLASS-375-53			US-PATENT-CLASS-244-139			US-PATENT-CLASS-323-312
		US-PATENT-CLASS-375-86			US-PATENT-CLASS-244-75R			US-PATENT-5,021,729
		US-PATENT-5,025,455			US-PATENT-5,020,739	N91-27504* #	c 34	INT-PATENT-CLASS-F16K-3/32
N91-25380* #	c 34	INT-PATENT-CLASS-B64G-1/28	N91-27156* #	c 05	INT-PATENT-CLASS-B64C-7/00			INT-PATENT-CLASS-F16K-31/06
		NASA-CASE-NPO-17204-1-CU			INT-PATENT-CLASS-B64D-1/02			NASA-CASE-MSC-21549-1
		US-PATENT-APPL-SN-473242			NASA-CASE-LAR-13875-1			US-PATENT-APPL-SN-507553
		US-PATENT-CLASS-114-122			US-PATENT-APPL-SN-250468			US-PATENT-CLASS-251-129.15
		US-PATENT-CLASS-114-125			US-PATENT-CLASS-244-118.1			US-PATENT-CLASS-251-148
		US-PATENT-CLASS-244-164			US-PATENT-CLASS-244-130			US-PATENT-CLASS-251-205
		US-PATENT-CLASS-244-165			US-PATENT-CLASS-244-137.4			US-PATENT-CLASS-251-326
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		NASA-CASE-MFS-28563-1			INT-PATENT-CLASS-F27D-11/10	N91-27522* #	c 35	INT-PATENT-CLASS-H04R-25/00
		US-PATENT-APPL-SN-710193			INT-PATENT-CLASS-G01N-3/08			NASA-CASE-GSC-13027-1-CU
N91-25693* #	c 62	INT-PATENT-CLASS-G06F-12/00			NASA-CASE-LEW-14848-1			US-PATENT-APPL-SN-363807
		NASA-CASE-NPO-17197-1-CU			US-PATENT-APPL-SN-382885			US-PATENT-CLASS-381-26
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		US-PATENT-5,031,089			NASA-CASE-LAR-13490-1			US-PATENT-APPL-SN-441672
N91-25840* #	c 74	NASA-CASE-MSC-21509-1			US-PATENT-APPL-SN-899683			US-PATENT-CLASS-239-265.11
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		US-PATENT-APPL-SN-376488			US-PATENT-CLASS-528-128			US-PATENT-CLASS-264-236
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		US-PATENT-CLASS-219-121.48			US-PATENT-CLASS-528-220			US-PATENT-5,023,034
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		NASA-CASE-LAR-14446-1			US-PATENT-CLASS-374-178			US-PATENT-5,153,131
		US-PATENT-APPL-SN-699288			US-PATENT-CLASS-374-185	N92-34239* #	c 26	NAS 1.71:MFS-28496-1
		US-PATENT-APPL-156-241			US-PATENT-5,141,334			NASA-CASE-MFS-28496-1
		US-PATENT-APPL-156-285			INT-PATENT-CLASS-A47B-97/04	N92-34240* #	c 63	US-PATENT-APPL-SN-929553
		US-PATENT-APPL-156-293	N92-33616*	c 37	NASA-CASE-GSC-13415-1			NAS 1.71:NPO-18645-1-CU
		US-PATENT-APPL-264-272.15			US-PATENT-APPL-SN-812932			NASA-CASE-NPO-18645-1-CU
		US-PATENT-APPL-29-856			US-PATENT-CLASS-248-453	N93-10108*	c 47	US-PATENT-APPL-SN-941335
		US-PATENT-5,149,387			US-PATENT-CLASS-248-455			INT-PATENT-CLASS-G01R-31/02
N92-33021*	c 33	INT-PATENT-CLASS-G01K-7/30			US-PATENT-CLASS-248-463			INT-PATENT-CLASS-G01W-1/00
		NASA-CASE-LAR-14567-1-CU			US-PATENT-5,149,046			NASA-CASE-MFS-26102-2-CU
		US-PATENT-APPL-SN-773376	N92-33634*	c 37	INT-PATENT-CLASS-B25J-17/00			US-PATENT-APPL-SN-776710
		US-PATENT-CLASS-374-175			NASA-CASE-GSC-13161-1			US-PATENT-CLASS-324-72
		US-PATENT-CLASS-73-1H			US-PATENT-APPL-SN-754828			US-PATENT-CLASS-340-601
		US-PATENT-CLASS-73-571			US-PATENT-CLASS-310-112			US-PATENT-5,153,508
		US-PATENT-5,146,780			US-PATENT-CLASS-310-82	N93-10109*	c 51	US-PATENT-7,571,687
N92-33022*	c 74	INT-PATENT-CLASS-G02B-27/42			US-PATENT-CLASS-74-479			INT-PATENT-CLASS-C12N-5/02
		INT-PATENT-CLASS-G03B-1/16			US-PATENT-CLASS-901-23			NASA-CASE-MSC-21293-2
		NASA-CASE-NPO-18379-1-CU			US-PATENT-CLASS-901-28			US-PATENT-APPL-SN-213559
		US-PATENT-APPL-SN-797569			US-PATENT-CLASS-901-28			US-PATENT-APPL-SN-545233
		US-PATENT-CLASS-359-559			US-PATENT-CLASS-901-9			US-PATENT-CLASS-435-240.24
		US-PATENT-CLASS-359-561			US-PATENT-5,142,932			US-PATENT-CLASS-435-240.25
		US-PATENT-CLASS-359-7	N92-34160*	c 27	INT-PATENT-CLASS-C04B-35/56			US-PATENT-CLASS-435-240.46
		US-PATENT-5,150,228			NASA-CASE-ARC-11891-2-SB			US-PATENT-5,155,035
N92-33028*	c 74	INT-PATENT-CLASS-H01J-3/14			US-PATENT-APPL-SN-361471	N93-10110*	c 51	INT-PATENT-CLASS-C12N-5/02
		NASA-CASE-NPO-18098-1-CU			US-PATENT-APPL-SN-643629			NASA-CASE-MSC-21294-2
		US-PATENT-APPL-SN-633746			US-PATENT-CLASS-501-92			US-PATENT-APPL-SN-213558
		US-PATENT-CLASS-250-216			US-PATENT-CLASS-501-93			US-PATENT-APPL-SN-687605
		US-PATENT-CLASS-359-241			US-PATENT-CLASS-501-96			US-PATENT-CLASS-435-240.24
		US-PATENT-5,130,530			US-PATENT-CLASS-501-97			US-PATENT-CLASS-435-240.241
N92-33029*	c 25	NASA-CASE-MSC-21584-1	N92-34171*	c 76	US-PATENT-5,130,278			US-PATENT-CLASS-435-240.25
		US-PATENT-APPL-SN-638600			NASA-CASE-MFS-28507-1			US-PATENT-CLASS-435-240.46
		US-PATENT-CLASS-210-209			US-PATENT-APPL-SN-601954			US-PATENT-CLASS-435-818
		US-PATENT-CLASS-210-266			US-PATENT-CLASS-156-621			US-PATENT-5,153,133
		US-PATENT-CLASS-210-269			US-PATENT-CLASS-422-102	N93-11056*	c 76	INT-PATENT-CLASS-H01L-29/205
		US-PATENT-CLASS-210-287			US-PATENT-CLASS-422-245			INT-PATENT-CLASS-H01L-31/10
		US-PATENT-CLASS-210-670			US-PATENT-CLASS-422-254			NASA-CASE-NPO-17880-1-CU
		US-PATENT-CLASS-210-748			US-PATENT-CLASS-422-56			US-PATENT-APPL-SN-651882
		US-PATENT-CLASS-210-758			US-PATENT-CLASS-422-99			US-PATENT-CLASS-357-16
		US-PATENT-5,141,636			US-PATENT-5,130,105			US-PATENT-CLASS-357-30
N92-33030*	c 33	INT-PATENT-CLASS-B23K-9/24	N92-34172*	c 02	INT-PATENT-CLASS-G01P-3/36			US-PATENT-CLASS-357-4
		NASA-CASE-MFS-29766-1			NASA-CASE-LAR-14685-1			US-PATENT-5,132,763
		US-PATENT-APPL-SN-677182			US-PATENT-APPL-SN-718313	N93-11057*	c 09	INT-PATENT-CLASS-G01N-25/72
		US-PATENT-CLASS-219-72			US-PATENT-CLASS-356-28			NASA-CASE-LAR-13508-3-CU
		US-PATENT-CLASS-219-75			US-PATENT-CLASS-356-318			US-PATENT-APPL-SN-146939
		US-PATENT-5,149,932			US-PATENT-CLASS-73-861.05			US-PATENT-APPL-SN-524108
N92-33031*	c 37	INT-PATENT-CLASS-F16H-21/16			US-PATENT-5,153,665			US-PATENT-APPL-SN-768094
		INT-PATENT-CLASS-F16H-49/00	N92-34173*	c 37	INT-PATENT-CLASS-F16M-13/00			US-PATENT-CLASS-374-4
		NASA-CASE-LAR-14515-1-CU			NASA-CASE-LAR-14352-1			US-PATENT-CLASS-374-5
		US-PATENT-APPL-SN-678551			US-PATENT-APPL-SN-735149			US-PATENT-CLASS-374-57
		US-PATENT-CLASS-74-25			US-PATENT-CLASS-188-378			US-PATENT-CLASS-73-147
		US-PATENT-CLASS-74-437			US-PATENT-CLASS-248-550			US-PATENT-5,131,758
		US-PATENT-5,146,803			US-PATENT-5,150,875	N93-11058*	c 74	INT-PATENT-CLASS-G01B-11/02
N92-33032*	c 52	INT-PATENT-CLASS-A61M-1/00	N92-34174*	c 39	INT-PATENT-CLASS-F16B-31/02			NASA-CASE-LEW-14996-1
		NASA-CASE-GSC-13306-1			NASA-CASE-LAR-14168-1			US-PATENT-APPL-SN-703435
		US-PATENT-APPL-SN-674828			US-PATENT-APPL-SN-717755			US-PATENT-CLASS-356-356
		US-PATENT-CLASS-148-402			US-PATENT-CLASS-73-761			US-PATENT-CLASS-356-360
		US-PATENT-CLASS-606-106			US-PATENT-CLASS-73-862.59			US-PATENT-CLASS-356-376
		US-PATENT-CLASS-606-127			US-PATENT-5,150,620			US-PATENT-CLASS-364-575
		US-PATENT-CLASS-606-78	N92-34205* #	c 37	NAS 1.71:NPO-18690-1-CU			US-PATENT-CLASS-382-26
		US-PATENT-5,133,721			NASA-CASE-NPO-18690-1-CU			US-PATENT-5,146,293
N92-33057*	c 60	NASA-CASE-NPO-17997-1-CU	N92-34206* #	c 25	US-PATENT-APPL-SN-917554	N93-11059*	c 27	INT-PATENT-CLASS-C08L-79/08
		US-PATENT-APPL-SN-481013			NAS 1.71:LEW-15360-1			NASA-CASE-LAR-13925-2
		US-PATENT-CLASS-359-107			NASA-CASE-LEW-15360-1			US-PATENT-APPL-SN-301925
		US-PATENT-CLASS-359-108			US-PATENT-APPL-SN-884097			US-PATENT-APPL-SN-665371
		US-PATENT-CLASS-359-559	N92-34210* #	c 54	NAS 1.71:MSC-21632-1			US-PATENT-CLASS-525-422
		US-PATENT-CLASS-359-561			NASA-CASE-MSC-21632-1			US-PATENT-CLASS-525-432
		US-PATENT-CLASS-365-49			US-PATENT-APPL-SN-929556			US-PATENT-CLASS-525-903
		US-PATENT-CLASS-382-31	N92-34229*	c 51	NASA-CASE-MSC-21560-1			US-PATENT-5,149,746
		US-PATENT-CLASS-382-32			US-PATENT-APPL-SN-213558	N93-11174* #	c 63	NAS 1.71:NPO-18579-1-CU
		US-PATENT-5,131,055			US-PATENT-APPL-SN-213559			NASA-CASE-NPO-18579-1-CU
N92-33611*	c 25	NASA-CASE-LAR-13388-1			US-PATENT-APPL-SN-317776			US-PATENT-APPL-SN-937335
		US-PATENT-APPL-SN-628062			US-PATENT-APPL-SN-317931	N93-11177* #	c 37	NAS 1.71:NPO-18584-1-CU
		US-PATENT-CLASS-210-222			US-PATENT-CLASS-435-240.24			NASA-CASE-NPO-18584-1-CU
		US-PATENT-CLASS-210-223			US-PATENT-CLASS-435-240.25			US-PATENT-APPL-SN-921192
		US-PATENT-CLASS-210-695			US-PATENT-CLASS-435-286			NAS 1.71:LEW-15263-1
		US-PATENT-CLASS-210-748			US-PATENT-CLASS-435-3	N93-11543* #	c 24	NASA-CASE-LEW-15263-1
		US-PATENT-CLASS-210-767			US-PATENT-5,153,132			US-PATENT-APPL-SN-892054
		US-PATENT-CLASS-55-15	N92-34231*	c 51	NASA-CASE-MSC-21559-1			NAS 1.71:NPO-18771-1-CU
		US-PATENT-CLASS-55-277			US-PATENT-APPL-SN-213558	N93-11664* #	c 61	NASA-CASE-NPO-18771-1-CU
		US-PATENT-5,147,562			US-PATENT-APPL-SN-213559			US-PATENT-APPL-SN-942500
N92-33612*	c 31	INT-PATENT-CLASS-B65D-83/10			US-PATENT-APPL-SN-317776	N93-11876* #	c 02	NAS 1.71:LAR-14470-1
		NASA-CASE-MSC-21776-1			US-PATENT-CLASS-435-240.24			NASA-CASE-LAR-14470-1

N93-11912* #	c 27	US-PATENT-APPL-SN-823809 NAS 1.71:LAR-14448-1 NASA-CASE-LAR-14448-1 US-PATENT-APPL-SN-912960	N93-14701* #	c 63	US-PATENT-CLASS-428-186 US-PATENT-CLASS-428-213 US-PATENT-5,162,143 INT-PATENT-CLASS-G08B-13/26 INT-PATENT-CLASS-G08B-19/10 NASA-CASE-GSC-13377-1 US-PATENT-APPL-SN-710845 US-PATENT-CLASS-324-687 US-PATENT-CLASS-340-562 US-PATENT-CLASS-340-870.37 US-PATENT-5,166,679	N93-14713* #	c 54	NASA-CASE-GSC-13430-1 US-PATENT-APPL-SN-824126 US-PATENT-CLASS-439-131 US-PATENT-CLASS-439-139 US-PATENT-CLASS-439-310 US-PATENT-5,174,772 INT-PATENT-CLASS-B64G-1/60 NASA-CASE-ARC-11882-1-CU US-PATENT-APPL-SN-254052 US-PATENT-CLASS-244-118.5 US-PATENT-CLASS-244-158R US-PATENT-CLASS-244-162 US-PATENT-CLASS-272-145 US-PATENT-CLASS-297-423 US-PATENT-4,865,270
N93-12202* #	c 31	NAS 1.71:NPO-18817-1-CU NASA-CASE-NPO-18817-1-CU US-PATENT-APPL-SN-942499	N93-14702* #	c 37	INT-PATENT-CLASS-B65D-39/12 INT-PATENT-CLASS-F02K-9/96 NASA-CASE-MSC-21898-1 US-PATENT-APPL-SN-780512 US-PATENT-CLASS-60-223 US-PATENT-CLASS-60-259 US-PATENT-CLASS-60-271 US-PATENT-CLASS-60-39.091 US-PATENT-5,165,229	N93-14714* #	c 35	NASA-CASE-LAR-13678-3 US-PATENT-APPL-SN-688361 US-PATENT-CLASS-427-248.1 US-PATENT-CLASS-427-255 US-PATENT-CLASS-427-255.6 US-PATENT-CLASS-427-255.7 US-PATENT-CLASS-427-344 US-PATENT-CLASS-427-527 US-PATENT-CLASS-427-58 US-PATENT-5,158,801
N93-12204* #	c 38	NAS 1.71:LAR-14581-1-SB NASA-CASE-LAR-14581-1-SB US-PATENT-APPL-SN-873407	N93-14703* #	c 36	INT-PATENT-CLASS-H01S-3/19 NASA-CASE-NPO-17763-1-CU US-PATENT-APPL-SN-782009 US-PATENT-CLASS-372-108 US-PATENT-CLASS-372-20 US-PATENT-CLASS-372-96 US-PATENT-5,164,956	N93-14841* #	c 35	NASA-CASE-MSC-21922-1 US-PATENT-APPL-SN-924213 INT-PATENT-CLASS-A61F-2/54 NASA-CASE-MFS-28481-1 US-PATENT-APPL-SN-873931 US-PATENT-CLASS-623-57 US-PATENT-CLASS-623-65 US-PATENT-5,163,966
N93-12205* #	c 35	NAS 1.71:LAR-14776-1 NASA-CASE-LAR-14776-1 US-PATENT-APPL-SN-928865 INT-PATENT-CLASS-C08J-5/08 INT-PATENT-CLASS-C08J-49/08 NASA-CASE-LAR-14338-1 US-PATENT-APPL-SN-429514 US-PATENT-CLASS-525-421 US-PATENT-CLASS-525-426 US-PATENT-CLASS-525-432 US-PATENT-CLASS-525-436 US-PATENT-CLASS-525-903 US-PATENT-5,159,029	N93-14704* #	c 60	INT-PATENT-CLASS-G11C-11/11 NASA-CASE-NPO-17954-1-CU US-PATENT-APPL-SN-545019 US-PATENT-CLASS-365-158 US-PATENT-CLASS-365-173 US-PATENT-5,173,873	N93-14870* #	c 54	INT-PATENT-CLASS-B23P-19/00 NASA-CASE-MSC-21881-1 US-PATENT-APPL-SN-785637 US-PATENT-CLASS-29-263 US-PATENT-CLASS-29-426.5 US-PATENT-CLASS-29-898.01 US-PATENT-CLASS-29-898.07 US-PATENT-CLASS-29-898.08 US-PATENT-5,165,169
N93-13417* #	c 37	INT-PATENT-CLASS-N66L-1/66 NASA-CASE-MSC-21730-1 US-PATENT-APPL-SN-660755 US-PATENT-CLASS-294-89 US-PATENT-CLASS-294-94 US-PATENT-5,158,331	N93-14705* #	c 26	INT-PATENT-CLASS-G01B-33/12 INT-PATENT-CLASS-G01B-7/24 NASA-CASE-LAR-14239-1 US-PATENT-APPL-SN-555864 US-PATENT-CLASS-324-209 US-PATENT-CLASS-324-227 US-PATENT-CLASS-324-232 US-PATENT-CLASS-73-598 US-PATENT-CLASS-73-801 US-PATENT-5,164,669	N93-14882* #	c 61	NASA-CASE-NPO-17845-2-CU US-PATENT-APPL-SN-799857 US-PATENT-CLASS-324-79D US-PATENT-CLASS-324-79R US-PATENT-CLASS-324-83Q US-PATENT-CLASS-342-100 US-PATENT-CLASS-364-724.06 US-PATENT-CLASS-364-724.07 US-PATENT-CLASS-364-724.08 US-PATENT-5,165,051
N93-13418* #	c 36	INT-PATENT-CLASS-H01S-3/19 NASA-CASE-NPO-18243-1-CU US-PATENT-APPL-SN-710424 US-PATENT-CLASS-372-45 US-PATENT-CLASS-372-46 US-PATENT-5,159,603	N93-14706* #	c 24	INT-PATENT-CLASS-B05D-1/02 INT-PATENT-CLASS-B05D-3/12 NASA-CASE-LEW-15020-2 US-PATENT-APPL-SN-601957 US-PATENT-APPL-SN-708255 US-PATENT-CLASS-427-367 US-PATENT-CLASS-427-404 US-PATENT-CLASS-427-419.2 US-PATENT-CLASS-427-456 US-PATENT-5,169,674	N93-17048* #	c 38	NAS 1.71:LAR-14850-1-CU NASA-CASE-LAR-14850-1-CU US-PATENT-APPL-SN-969869 NAS 1.71:MSC-21979-1 NASA-CASE-MSC-21979-1 US-PATENT-APPL-SN-931942 NAS 1.71:LEW-15430-1 NASA-CASE-LEW-15430-1 US-PATENT-APPL-SN-961943 NAS 1.71:LAR-14640-1-CU NASA-CASE-LAR-14640-1-CU US-PATENT-APPL-SN-956685
N93-13419* #	c 74	INT-PATENT-CLASS-G01N-21/27 INT-PATENT-CLASS-G02B-5/20 NASA-CASE-NPO-18317-1-CU US-PATENT-APPL-SN-744197 US-PATENT-CLASS-250-339 US-PATENT-CLASS-356-328 US-PATENT-CLASS-357-30 US-PATENT-CLASS-359-859 US-PATENT-5,159,199	N93-14707* #	c 76	INT-PATENT-CLASS-B01D-9/02 NASA-CASE-MFS-28473-1 US-PATENT-APPL-SN-717447 US-PATENT-CLASS-156-DIG.62 US-PATENT-CLASS-23-295R US-PATENT-CLASS-23-300 US-PATENT-5,173,087	N93-17049* #	c 51	NAS 1.71:MSC-21979-1 NASA-CASE-MSC-21979-1 US-PATENT-APPL-SN-931942 NAS 1.71:LEW-15430-1 NASA-CASE-LEW-15430-1 US-PATENT-APPL-SN-961943 NAS 1.71:LAR-14640-1-CU NASA-CASE-LAR-14640-1-CU US-PATENT-APPL-SN-956685
N93-13420* #	c 39	INT-PATENT-CLASS-G05D-15/01 INT-PATENT-CLASS-G05D-19/01 NASA-CASE-LAR-14508-1-CU US-PATENT-APPL-SN-664184 US-PATENT-CLASS-248-550 US-PATENT-CLASS-318-648 US-PATENT-CLASS-318-649 US-PATENT-CLASS-73-579 US-PATENT-CLASS-73-668 US-PATENT-5,156,370	N93-14708* #	c 52	INT-PATENT-CLASS-B62D-51/04 NASA-CASE-GSC-13348-1 US-PATENT-APPL-SN-725111 US-PATENT-CLASS-280-1.5 US-PATENT-CLASS-280-290 US-PATENT-CLASS-280-87.051 US-PATENT-CLASS-482-68 US-PATENT-CLASS-482-69 US-PATENT-5,174,590	N93-17051* #	c 71	NAS 1.71:MSC-21979-1 NASA-CASE-MSC-21979-1 US-PATENT-APPL-SN-931942 NAS 1.71:LEW-15430-1 NASA-CASE-LEW-15430-1 US-PATENT-APPL-SN-961943 NAS 1.71:LAR-14640-1-CU NASA-CASE-LAR-14640-1-CU US-PATENT-APPL-SN-956685
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NASA inventions, abstracted in *NASA PAB*, are available for nonexclusive or exclusive licensing in accordance the NASA Patent Licensing Regulations. It is significant that all licenses for NASA inventions shall be by express written instruments and that no license will be granted or implied in a NASA invention except as provided in the NASA Patent Licensing Regulations.

Inquiries concerning the NASA Patent Licensing Program or the availability of licenses for the commercial use of NASA-owned inventions covered by U.S. patents or pending applications for patent should be forwarded to the NASA Patent Counsel of the NASA installation having cognizance of the specific invention, or the Associate General Counsel for Intellectual Property, code GP, National Aeronautics and Space Administration, Washington, D.C. 20546. Inquiries should refer to the NASA Case Number, the Title of the Invention, and the U.S. Patent Number or the U.S. Application Serial Number assigned to the invention as shown in *NASA PAB*.

The NASA Patent Counsel having cognizance of the invention is determined by the first three letters or prefix of the NASA Case Number assigned to the invention. The addresses of NASA Patent Counsels are listed alongside the NASA Case Number prefix letters in the following table.

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XNP-xxxxx
FRC-xxxxx
XFR-xxxxx
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PATENT LICENSING REGULATIONS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

14 CFR Part 1245

Patents and Other Intellectual Property Rights

AGENCY: National Aeronautics and Space Administration (NASA).

ACTION: Final Rule.

SUMMARY: 14 CFR part 1245, subpart 2, "Licensing of NASA Inventions" provides policies and procedures applicable to the licensing of federally owned inventions in the custody of the National Aeronautics and Space Administration and implements Public Law 96-517. The object of subpart 2 is to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

EFFECTIVE DATE: December 13, 1990.

ADDRESS: Office of General Counsel, Code GP, NASA Headquarters, Washington, DC 20546.

FOR FURTHER INFORMATION CONTACT:

Harry Lupuloff, (202) 358-2041

SUPPLEMENTARY INFORMATION:

14 CFR part 1245, subpart 2 is amended by revising NASA position titles in §1245.208 (a), (b) and (c). Since this action is internal and administrative in nature and does not affect the existing regulations, notice and public comment are not required.

The National Aeronautics and Space Administration has determined that:

(1) This rule is not subject to the requirements of the Regulatory Flexibility Act, 5 U.S.C. 601-612, since it will not exert a significant impact on a substantial number of small business entities.

(2) This rule is not a major rule as defined in Executive Order 12291.

List of Subjects in 14 CFR Part 1245

Administrative practice and procedure. Authority delegations (Government agencies). Inventions and patents.

For reasons set out in the Preamble, 14 CFR part 1245 is amended as follows:

PART 1245—PATENTS AND OTHER INTELLECTUAL PROPERTY RIGHTS

(1) The authority citation for 14 CFR part 1245, subpart 2 continues to read as follows:

Authority: 35 U.S.C. Section 207 and 208.94 Stat. 3023 and 3024.

(2) Section 1245.208 is revised to read as follows:

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Subpart 2—Licensing of NASA Inventions

Sec.

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Authority: 35 U.S.C. Section 207 and 208.94 Stat. 3023 and 3024.

★ ★ ★ ★ ★

Subpart 2—Licensing of NASA Inventions

§1245.200 Scope of subpart.

This subpart prescribes the terms, conditions and procedures upon which a NASA invention may be licensed. It does not affect licenses which (a) were in effect prior to July 1, 1981; (b) may exist at the time of the Government's acquisition of title to the invention, including those resulting from the allocation of rights to inventions made under Government research and development contracts; (c) are the result of an authorized exchange of rights in the settlement of patent disputes; or (d) are otherwise authorized by law or treaty.

§1245.201 Policy and objective.

It is the policy and objective of this subpart to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

§1245.202 Definitions.

(a) "Federally owned invention" means an invention, plant, or design which is covered by a patent, or patent application in the United States, or a patent, patent application, plant variety protection, or other form of protection, in a foreign country, title to which has been assigned to or otherwise vested in the United States Government.

(b) "Federal agency" means an executive department, military department, Government corporation, or independent establishment, except the Tennessee Valley Authority, which has custody of a Federally owned invention.

(c) "NASA Invention" means a Federally owned invention with respect to which NASA maintains custody and administration, in whole or in part, of the right, title or interest in such invention on behalf of the United States Government.

(d) "Small business firm" means a small business concern as defined at section 2 of Pub. L. 85-536 (15 U.S.C. 632) and implementing regulations of the Administrator of the Small Business Administration. For the purpose of these regulations, the size standard for small business concerns involved in Government procurement, contained in 13 CFR 121.3-8, and in subcontracting, contained in 13 CFR 121.3-12, will be used.

(e) "Practical application" means to manufacture in the case of a composition or product, to practice in the case of a process or method, or to operate in the case of a machine or system; and, in each case, under such conditions, as to establish that the invention is being utilized and that its benefits are to the extent permitted by law or Government regulations available to the public on reasonable terms.

(f) "United States" means the United States of America, its territories and possessions, the District of Columbia, and the Commonwealth of Puerto Rico.

§1245.203 Authority to grant licenses.

NASA inventions shall be made available for licensing as deemed appropriate in the public interest. NASA may grant nonexclusive, partially exclusive, or exclusive licenses thereto under this subpart on inventions in its custody.

Restrictions and Conditions

§1245.204 All licenses granted under this subpart.

(a) *Restrictions.* (1) A license may be granted only if the applicant has supplied NASA with a satisfactory plan for development or marketing of the invention, or both, and with information about the applicant's capability to fulfill the plan.

(2) A license granting rights to use or sell under a NASA invention in the United States shall normally be granted only to a licensee who agrees that any products embodying the invention or produced through the use of the invention will be manufactured substantially in the United States.

(b) *Conditions.* Licenses shall contain such terms and conditions as NASA determines are appropriate for the protection of the interests of the Federal Government and the public and are not in conflict with law or this subpart. The following terms and conditions apply to any license:

(1) The duration of the license shall be for a period specified in the license agreement, unless sooner terminated in accordance with this subpart.

(2) The license may be granted for all or less than all fields of use of the invention or in specified geographical areas, or both.

PATENT LICENSING REGULATIONS

(3) The license may extend to subsidiaries of the licensee or other parties if provided for in the license but shall be nonassignable without approval of NASA, except to the successor of that part of the licensee's business to which the invention pertains.

(4) The license may provide the licensee the right to grant sublicenses under the license, subject to the approval of NASA. Each sublicense shall make reference to the license, including the rights retained by the Government, and a copy of such sublicense shall be furnished to NASA.

(5) The license shall require the licensee to carry out the plan for development or marketing of the invention, or both, to bring the invention to practical application within a period specified in the license, and to continue to make the benefits of the invention reasonably accessible to the public.

(6) The license shall require the licensee to report periodically on the utilization or efforts at obtaining utilization that are being made by the licensee, with particular reference to the plan submitted.

(7) All licenses shall normally require royalties or other consideration.

(8) Where an agreement is obtained pursuant to §1245.204(a)(2) that any products embodying the invention or produced through use of the invention will be manufactured substantially in the United States, the license shall recite such agreement.

(9) The license shall provide for the right of NASA to terminate the license, in whole or in part, if:

(i) NASA determines that the licensee is not executing the plan submitted with its request for a license and the licensee cannot otherwise demonstrate to the satisfaction of NASA that it has taken or can be expected to take within a reasonable time effective steps to achieve practical application of the invention;

(ii) NASA determines that such action is necessary to meet requirements for public use specified by Federal regulations issued after the date of the license and such requirements are not reasonably satisfied by the licensee;

(iii) The licensee has willfully made a false statement of or willfully omitted a material fact in the license application or in any report required by the license agreement; or

(iv) The licensee commits a substantial breach of a covenant or agreement contained in the license.

(10) The license may be modified or terminated, consistent with this subpart, upon mutual agreement of NASA and the licensee.

(11) Nothing relating to the grant of a license, nor the grant itself, shall be construed to confer upon any person any immunity from or defenses under the antitrust laws or from a charge of patent misuse, and the acquisition and use of rights pursuant to this subpart shall not be immunized from the operation of state or Federal law by reason of the source of the grant.

Types of Licenses

§1245.205 Nonexclusive licenses.

(a) *Availability of licenses.* Nonexclusive licenses may be granted under NASA inventions without publication of availability or notice of a prospective license.

(b) *Conditions.* In addition to the provisions of §1245.204, the nonexclusive license may also provide that, after termination of a period specified in the license agreement, NASA may restrict the license to the fields of use or geographic areas, or both, in which the licensee has brought the invention to practical application and continues to make the benefits of the invention reasonably accessible to the public. However, such restriction shall be made only in order to grant an exclusive or partially exclusive license in accordance with this subpart.

§1245.206 Exclusive and partially exclusive licenses.

(a) Domestic licenses.

(i) *Availability of licenses.* Exclusive or partially exclusive licenses may be granted on NASA inventions: (i) 3 months after notice of the invention's availability has been announced in the Federal Register; or (ii) without such notice where NASA determines that expeditious granting of such a license will best serve the interests of the Federal Government and the public; and (iii) in either situation, specified in (a)(1)(i) or (ii) of this section only if:

(A) Notice of a prospective license, identifying the invention and the prospective licensee, has been published in the Federal Register, providing opportunity for filing written objections within a 60-day period;

(B) After expiration of the period in §1245.206(a)(1)(iii)(A) and consideration of any written objections received during the period, NASA has determined that:

(1) The interests of the Federal Government and the public will best be served by the proposed license, in view of the applicant's intentions, plans, and ability to bring the invention to practical application or otherwise promote the invention's utilization by the public;

(2) The desired practical application has not been achieved, or is not likely expeditiously to be achieved, under any nonexclusive license which has been granted, or which may be granted, on the invention;

(3) Exclusive or partially exclusive licensing is a reasonable and necessary incentive to call forth the investment of risk capital and expenditures to bring the invention to practical application or otherwise promote the invention's utilization by the public; and

(4) The proposed terms and scope of exclusivity are not greater than reasonably necessary to provide the incentive for bringing the invention to practical application or otherwise promote the invention's utilization by the public;

(C) NASA has not determined that the grant of such license will tend substantially to lessen competition or result in undue concentration in any section of the country in any line of commerce to which the technology to be licensed relates, or to create or maintain other situations inconsistent with the antitrust laws; and

(D) NASA has given first preference to any small business firms submitting plans that are determined by the agency to be within the capabilities of the firms and as equally likely, if executed, to bring the invention to practical application as any plans submitted by applicants that are not small business firms.

(2) *Conditions.* In addition to the provisions of §1245.204, the following terms and conditions apply to domestic exclusive and partially exclusive licenses:

(i) The license shall be subject to the irrevocable, royalty-free right of the Government of the United States to practice and have practiced the invention on behalf of the United States and on behalf of any foreign government or international organization pursuant to any existing or future treaty or agreement with the United States.

(ii) The license shall reserve to NASA the right to require the licensee to grant sublicenses to responsible applicants, on reasonable terms, when necessary to fulfill health or safety needs.

(iii) The license shall be subject to any licenses in force at the time of the grant of the exclusive or partially exclusive license.

(iv) The license may grant the licensee the right of enforcement of the licensed patent pursuant to the provisions of Chapter 29 of Title 35, United States Code, or other statutes, as determined appropriate in the public interest.

(b) Foreign licenses.

(1) *Availability of licenses.* Exclusive or partially exclusive licenses may be granted on a NASA invention covered by a foreign patent, patent application, or other form of protection, provided that:

(i) Notice of a prospective license, identifying the invention and prospective licensee, has been published in the Federal Register, providing opportunity for filing written objections within a 60-day period and following consideration of such objections;

(ii) NASA has considered whether the interests of the Federal Government or United States industry in foreign commerce will be enhanced; and

(iii) NASA has not determined that the grant of such license will tend substantially to lessen competition or result in undue concentration in any section of the United States in any line of commerce to which the technology to be licensed relates, or to create or maintain other situations inconsistent with antitrust laws.

(2) *Conditions.* In addition to the provisions of §1245.204, the following terms and conditions apply to foreign exclusive and partially exclusive licenses:

(i) The license shall be subject to the irrevocable, royalty-free right of the Government of the United States to practice and have practiced the invention on behalf of the United States and on behalf of any foreign government or international organization pursuant to any existing or future treaty or agreement with the United States.

(ii) The license shall be subject to any licenses in force at the time of the grant of the exclusive or partially exclusive license.

(iii) The license may grant the licensee the right to take any suitable and necessary actions to protect the licensed property, on behalf of the Federal Government.

(c) *Record of determinations.* NASA shall maintain a record of determinations to grant exclusive or partially exclusive licenses.

PATENT LICENSING REGULATIONS

Procedures

§1245.207 Application for a license.

An application for a license should be addressed to the Patent Counsel at the NASA installation having responsibility for the invention and shall normally include:

- (a) Identification of the invention for which the license is desired, including the patent application, serial number or patent number, title, and date, if known;
- (b) Identification of the type of license for which the application is submitted;
- (c) Name and address of the person, company, or organization applying for the license and the citizenship or place of incorporation of the applicant;
- (d) Name, address, and telephone number of representative of applicant to whom correspondence should be sent;
- (e) Nature and type of applicant's business, identifying products or services which the applicant has successfully commercialized, and approximate number of applicant's employees;
- (f) Source of information concerning the availability of a license on the invention;
- (g) A statement indicating whether applicant is a small business firm as defined in §1245.202(c);
- (h) A detailed description of applicant's plan for development or marketing of the invention, or both, which should include:
 - (1) A statement of the time, nature and amount of anticipated investment of capital and other resources which applicant believes will be required to bring the invention to practical application;
 - (2) A statement as to applicant's capability and intention to fulfill the plan, including information regarding manufacturing, marketing, financial, and technical resources;
 - (3) A statement of the fields of use for which applicant intends to practice the invention; and
 - (4) A statement of the geographic areas in which applicant intends to manufacture any products embodying the invention and geographic areas where applicant intends to use or sell the invention, or both;
- (i) Identification of licenses previously granted to applicant under Federally owned inventions;
- (j) A statement containing applicant's best knowledge of the extent to which the invention is being practiced by private industry or Government, or both, or is otherwise available commercially; and
- (k) Any other information which applicant believes will support a determination to grant the license to applicant.

§1245.208 Processing applications.

(a) Applications for licenses will be initially reviewed by the Patent Counsel of the NASA installation having responsibility for the invention. The Patent Counsel shall make a preliminary recommendation to the Director of Licensing, NASA Headquarters, whether to:

- (1) Grant the license as requested.
- (2) Grant the license with modification after negotiation with the licensee, or
- (3) Deny the license.

The Director of Licensing shall review the preliminary recommendation of the Patent Counsel and make a final recommendation to the NASA Associate General Counsel (Intellectual Property). Such review and final recommendation may include, and be based on, any additional information obtained from applicant and other sources that the Patent Counsel and the Director of Licensing deem relevant to the license requested. The determination to grant or deny the license shall be made by the Associate General Counsel (Intellectual Property) based on the final recommendation of the Director of Licensing.

(b) When notice of a prospective exclusive or partially exclusive license is published in the Federal Register in accordance with §1245.206(a)(1)(iii)(A) or §1245.206(b)(1)(i), any written objections received in response thereto will be considered by the Director of Licensing in making the final recommendation to the Associate General Counsel (Intellectual Property).

(c) If the requested license, including any negotiated modifications, is denied by the Associate General Counsel (Intellectual Property), the applicant may request reconsideration by filing a written request for reconsideration within 30 days after receiving notice of denial. This 30-day period may be extended for good cause.

(d) In addition to, or in lieu of requesting reconsideration, the applicant may also appeal the denial of the license in accordance with §1245.211.

Dated: November 23, 1990

Richard H. Truly,
Administrator.

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§1245.209 Notice to Attorney General.

A copy of the notice provided for in §§1245.206(a)(1)(iii)(A), and 1245.206(b)(1)(i) will be sent to the Attorney General.

§1245.210 Modification and termination of licenses.

Before modifying or terminating a license, other than by mutual agreement, NASA shall furnish the licensee and any sublicensee of record a written notice of intention to modify or terminate the license, and the licensee and any sublicensee shall be allowed 30 days after such notice to remedy any breach of the license or show cause why the license should not be modified or terminated.

§1245.211 Appeals.

(a) The following parties may appeal to the NASA Administrator or designee any decision or determination concerning the grant, denial, interpretation, modification, or termination of a license:

- (1) A person whose application for a license has been denied;
- (2) A licensee whose license has been modified or terminated, in whole or in part; or
- (3) A person who timely filed a written objection in response to the notice required by §§1245.206(a)(1)(iii)(A) or 1245.206(b)(1)(i) and who can demonstrate to the satisfaction of NASA that such person may be damaged by the Agency action.

(b) Written notice of appeal must be filed within 30 days (or such other time as may be authorized for good cause shown) after receiving notice of the adverse decision or determination; including, an adverse decision following the request for reconsideration under §1245.208(c). The notice of appeal, along with all supporting documentation should be addressed to the Administrator, National Aeronautics and Space Administration, Washington, DC 20546. Should the appeal raise a genuine dispute over material facts, fact-finding will be conducted by the NASA Inventions and Contributions Board. The person filing the appeal shall be afforded an opportunity to be heard and to offer evidence in support of the appeal. The Chairperson of the Inventions and Contributions Board shall prepare written findings of fact and transmit them to the Administrator or designee. The decision on the appeal shall be made by the NASA Administrator or designee. There is no further right of administrative appeal from the decision of the Administrator or designee.

§1245.212 Protection and administration of inventions.

NASA may take any suitable and necessary steps to protect and administer rights to NASA inventions, either directly or through contract.

§1245.213 Transfer of custody.

NASA having custody of certain Federally owned inventions may transfer custody and administration in whole or in part, to another Federal agency, of the right, title, or interest in any such invention.

§1245.214 Confidentiality of information.

Title 35, United States Code, section 209, provides that any plan submitted pursuant to §1245.207(h) and any report required by §1245.204(b)(6) may be treated by NASA as commercial and financial information obtained from a person and privileged and confidential and not subject to disclosure under section 552 of Title 5 of the United States Code.

James M. Beggs,
Administrator.

October 15, 1981.

[FR Doc. R1-31609 Filed 10-30-81, 8:45 am]

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